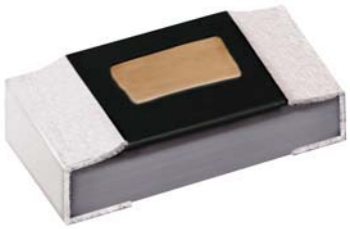
Viking Tech Corporation

Thin Film Chip Inductor



■Scope

—V king's 0201 and 0402 and 0603 series inductor is a photo lithographically etched single layer ceramic chip. Viking's design provides high SRF, excellent Q, and superior temperature stability. This highly stable inductor family is specifically designed for critical tolerance needs.

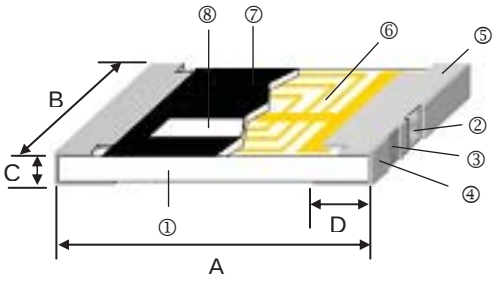
■Features

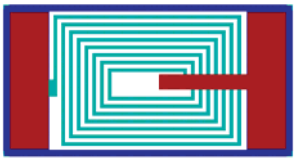
—Photolithographic single layer ceramic chip
—High SRF, excellent Q, superior temperature stability
—Tight tolerance of ± 1% or ± 0.1nH
—Self resonant frequency controlled within 10%
—Stable inductance in high frequency circuit
—Highly stable design for critical needs

■Applications

—Cellular Telephone, Pagers and GPS Products
—VCO, TCXO Circuit and RF Transceiver Module
—Wireless LAN, Bluetooth Module, Communication Appliances

■Construction





①	Alumina Substrate	④	External Electrode (Sn)	⑦	Overcoat
②	Inner Electrode (Ni-Cr)	⑤	Edge Electrode	⑧	Marking
③	Barrier Layer (Ni)	⑥	Cu Circuits		

■Dimensions

Unit: mm

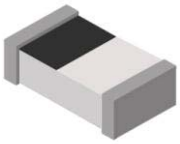
Type	Size (Inch)	A	B	C	D	Weight (g) (1000pcs)
AL01	0201	0.60±0.05	0.30±0.05	0.23±0.05	0.15±0.05	0.23
AL02	0402	1.0±0.05	0.5±0.05	0.32±0.05	0.2±0.10	0.9

■Part Numbering

AL	02	G	T	10N	
Product Type	Dimensions	Inductance Tolerance	Packaging Code	Inductance	
	01: 0201 02: 0402	B: ±0.1nH C: ±0.2nH S: ±0.3nH F: ±1% G: ±2% H: ±3% J: ±5%	T: Taping Reel	1N0: 1nH 10N: 10nH 20N8: 20.8nH	:Standard 01: High Current 02: High Q

■ **Viking is capable of manufacturing the optional spec based on customer's requirement.**

Multilayer Chip Inductor



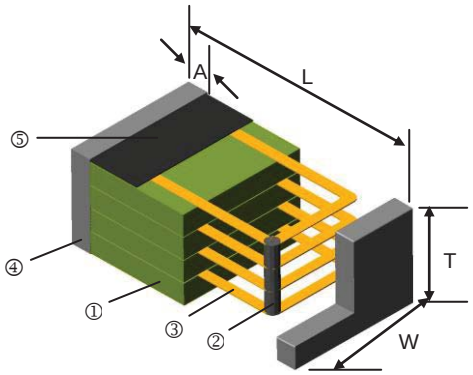
■Features

- —A ceramic material construction for high frequency application up to 10GHz
- —Tight tolerance physical dimensions (+/-0.05mm)
- —Tight inductance tolerance and excellent Q value
- —Available in three compact sizes of 0201, 0402, 0603

■Applications

- —High Frequency Application
- —Cellular Phone, Pagers
- —EMI Countermeasure in High Frequency Circuits and Computer Communication etc.
- —WLAN and RF module

■Construction



①	Ceramic Material	③	Inner Electrode (Ag)	⑤	Direction Mark
②	Through Hole	④	End-termination (Ag/Ni/Sn)		

■Dimensions

Unit: mm

Type	Size (Inch)	L	W	T	A (min. / max.)	Weight (g) (1000pcs)
CL01	0201	0.6±0.03	0.3±0.03	0.33 max.	0.1 / 0.2	0.28
CL02	0402	1.0±0.10	0.5±0.10	0.5±0.10	0.1 / 0.3	0.98
CL03	0603	1.6±0.15	0.8±0.15	0.8±0.15	0.2 / 0.6	3.47

■Part Numbering

CL	02	J	T	10N
Product Type	Dimensions	Inductance Tolerance	Packaging Code	Inductance
	01: 0201 02: 0402 03: 0603	J: ±5% K: ±10% S: ±0.3nH	T: Taping Reel	1N0: 1.0nH 39N: 39nH R10: 100nH

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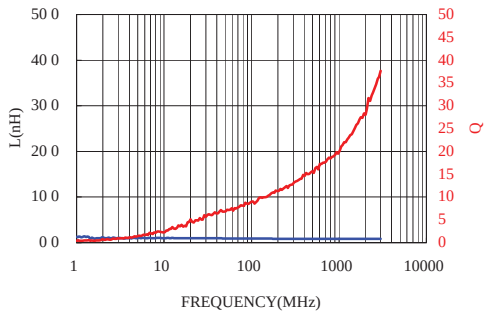

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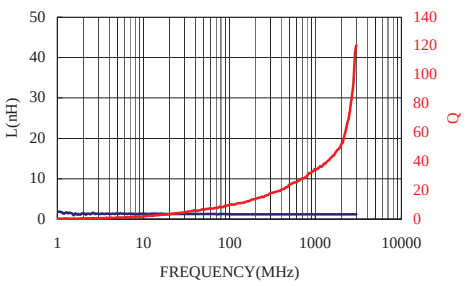

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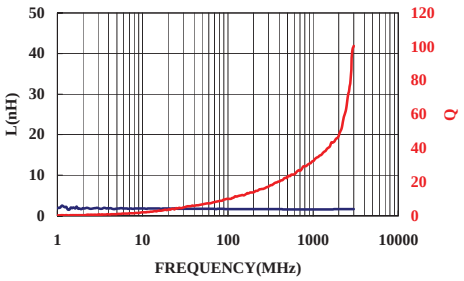

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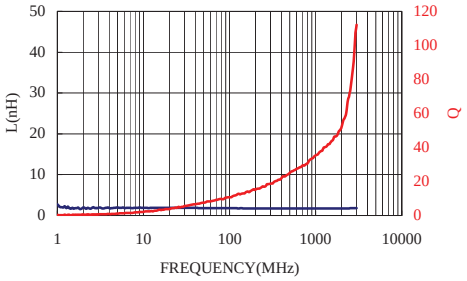

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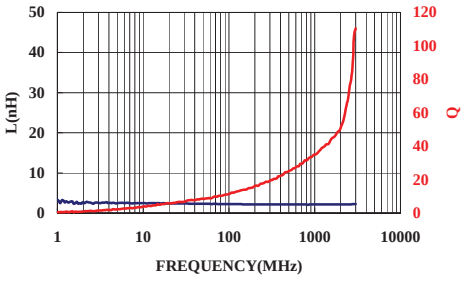

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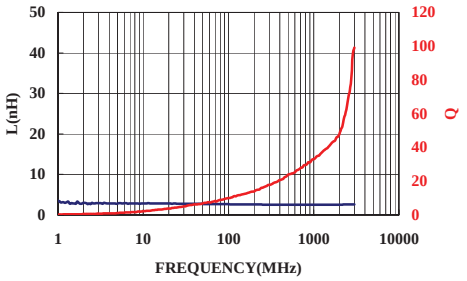

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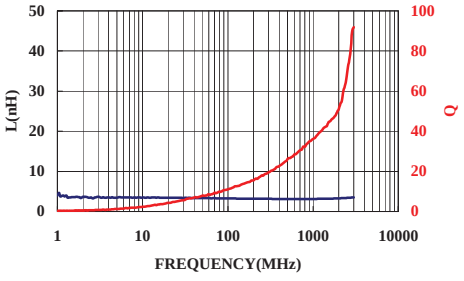

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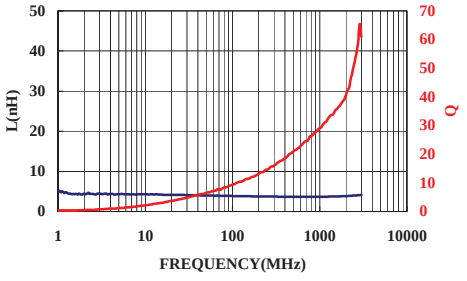


SMD Wire Wound Chip Inductor

■Scope

－Ceramic body and wire wound construction provide highest SRFs available …..

■Features

－Ceramic base provide high SRF
－Ultra-compact inductors provide high Q factors
－Low profile, high current are available
－Miniature SMD chip inductor for fully automated assembly
－Outstanding endurance from Pull-up force, mechanical shock and pressure
－Tighter tolerance down to ±2%
－Smaller size of 0402 (1005)

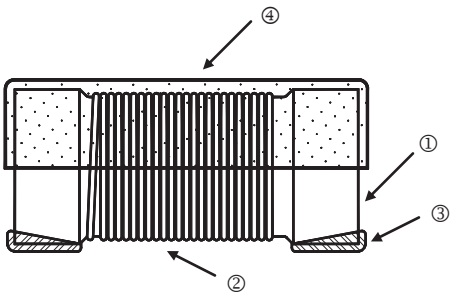
■Applications

RF Products:
－Cellular Phone (CDMA/GSM/PHS)
－Cordless Phone (DECT/CT1CT2)
－Remote Control, Security System
－Wireless PDA
－WLL, Wireless LAN / Mouse / Keyboard / Earphone
－VCO, RF Module & Other Wireless Products
－Base Station, Repeater
－GPS Receiver

Broad Band Applications:
－CATV Filter, Tuner
－Cable Modem/ XDSL Tuner
－Set Top Box

IT Applications:
－USB 2.0
－IEEE 1394

■Construction



①	Ceramic Core	③	Electrode (Ag/Pd+Ni+Sn)
②	Magnet Wire	④	UV Glue

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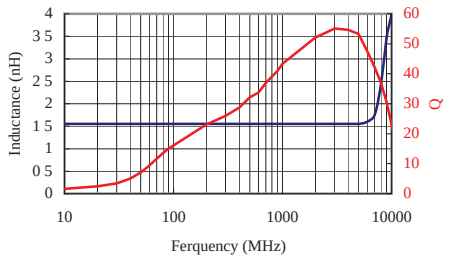

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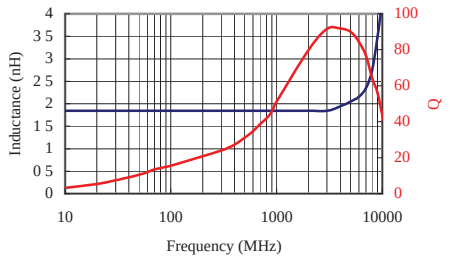

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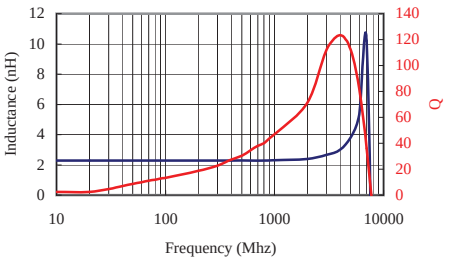

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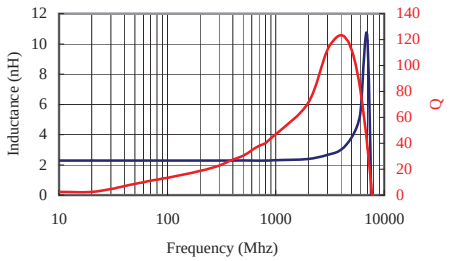

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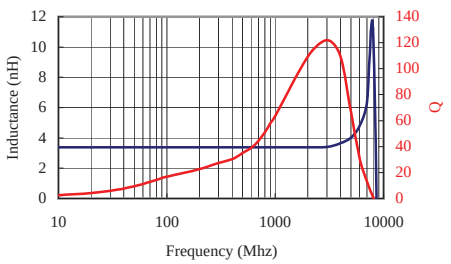

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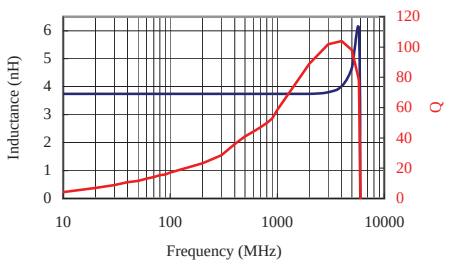

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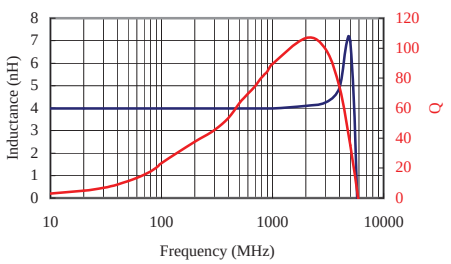

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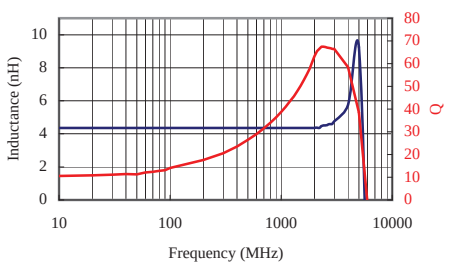

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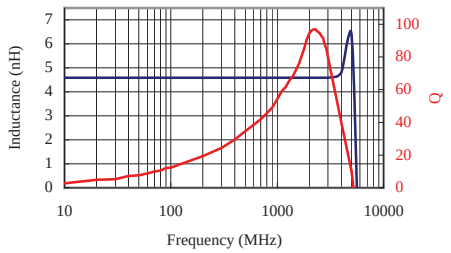

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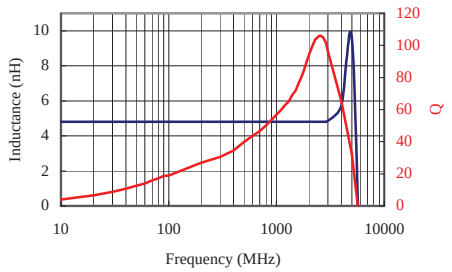

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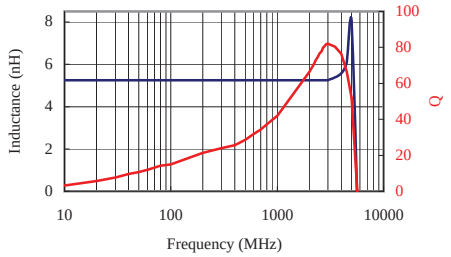

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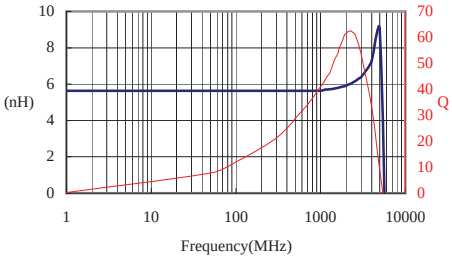

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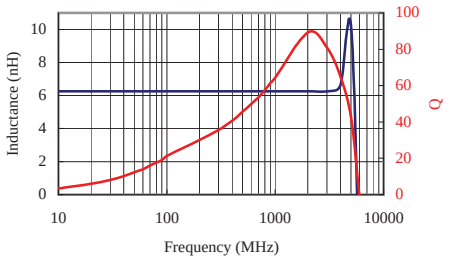

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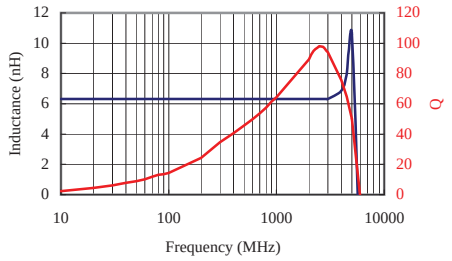

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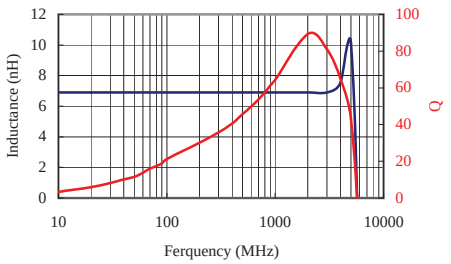

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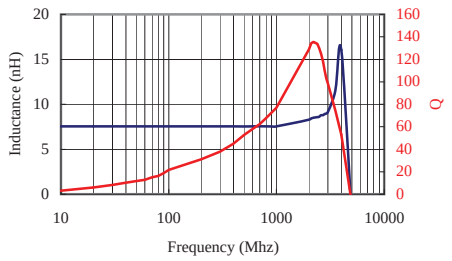

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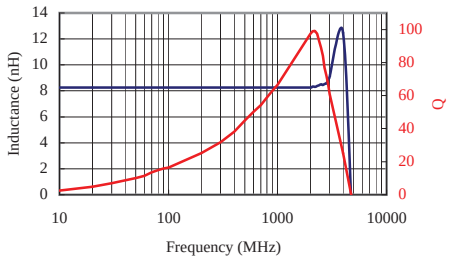

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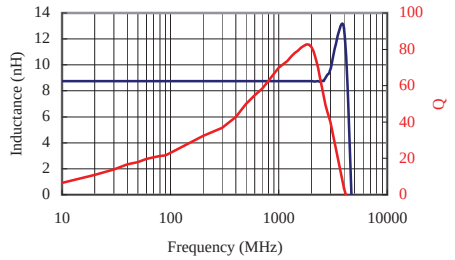

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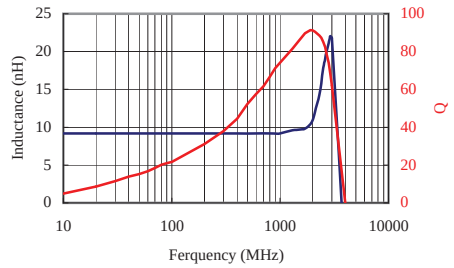

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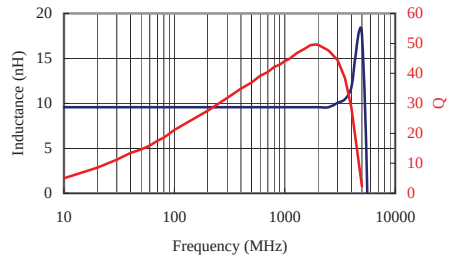

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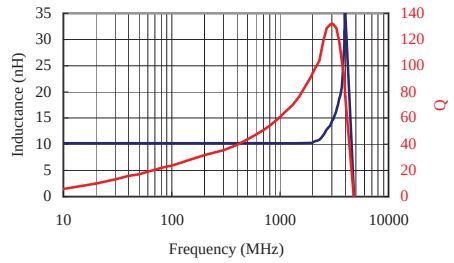

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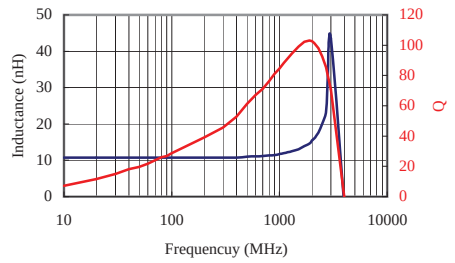

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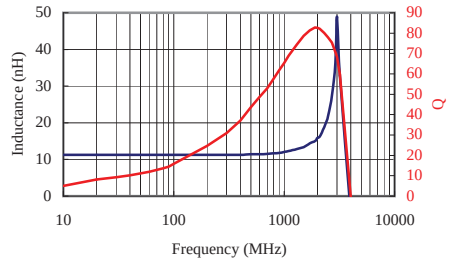

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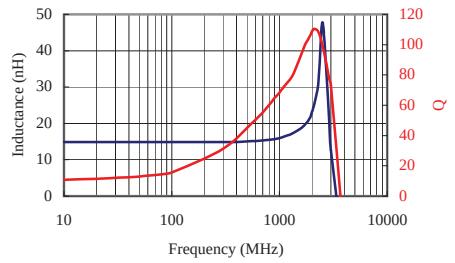

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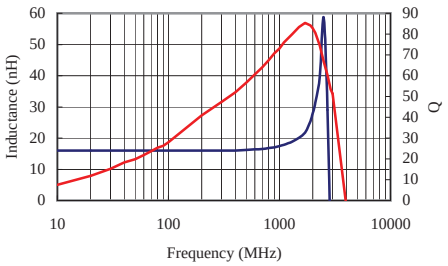

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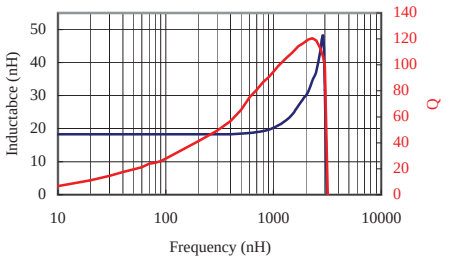

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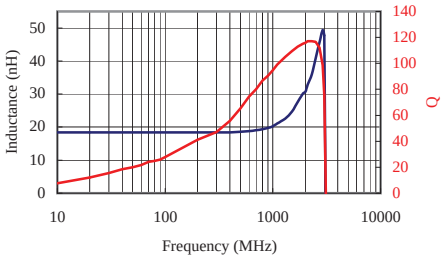

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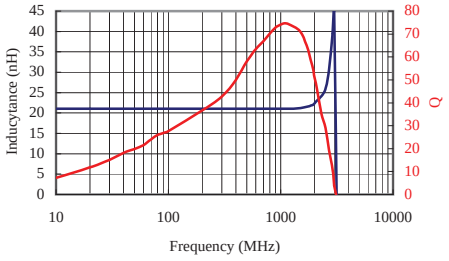

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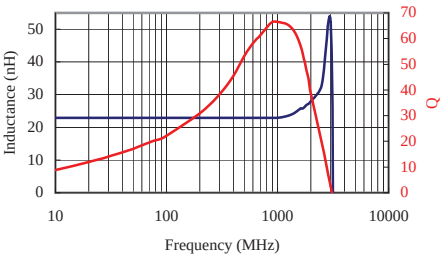

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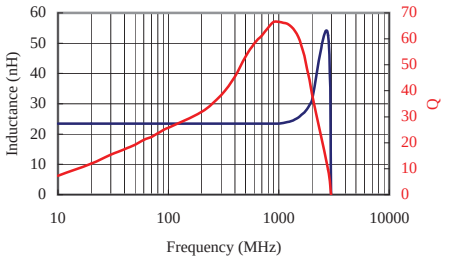

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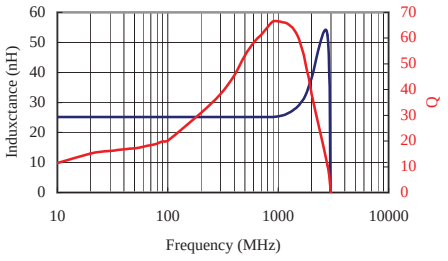

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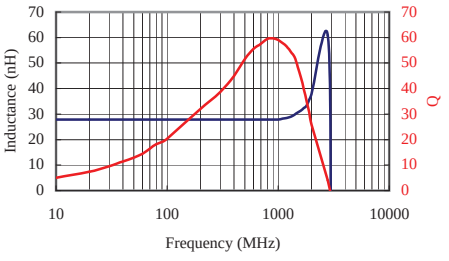

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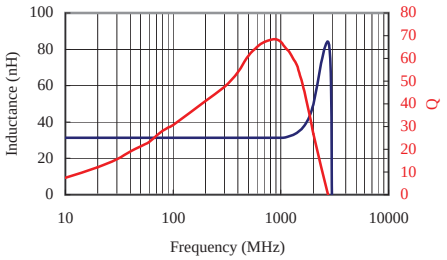

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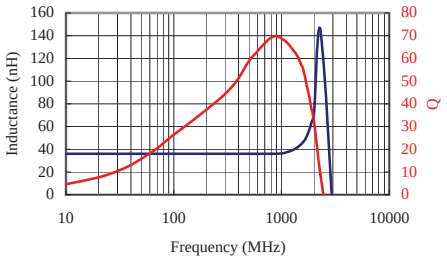

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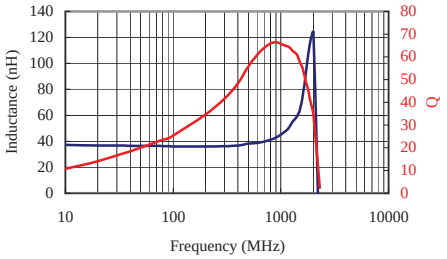

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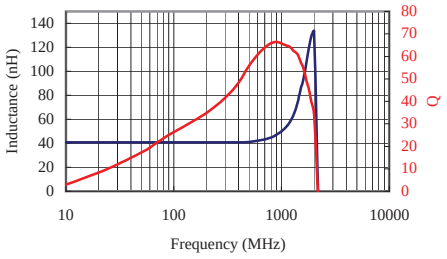

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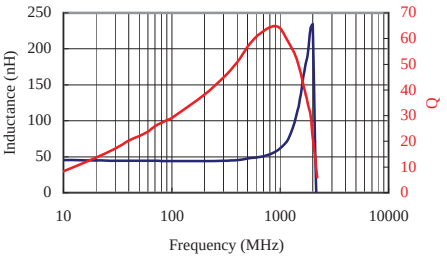

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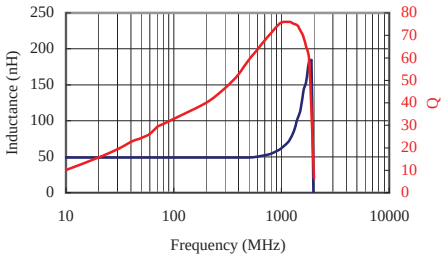

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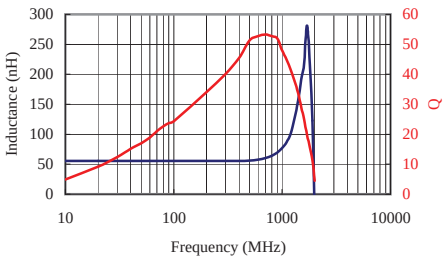

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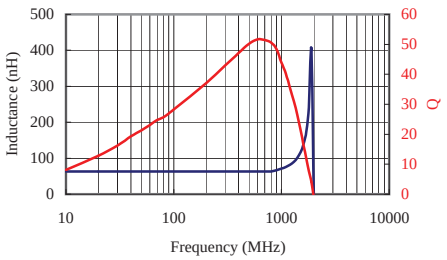

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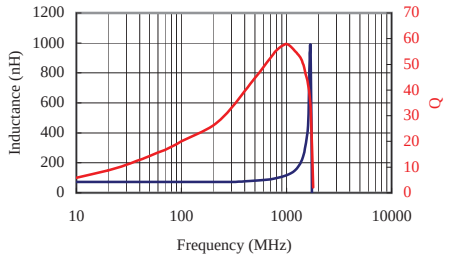

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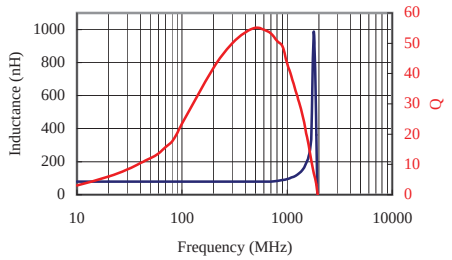

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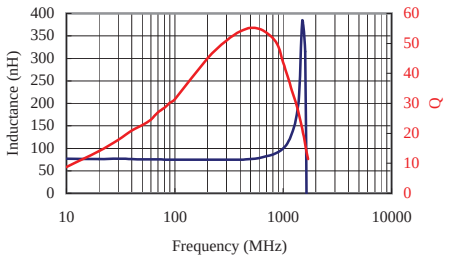

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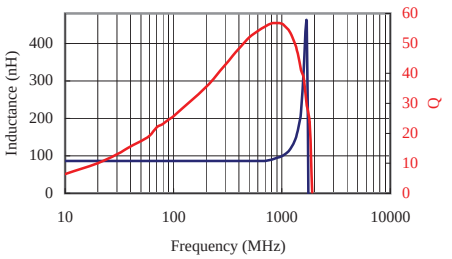

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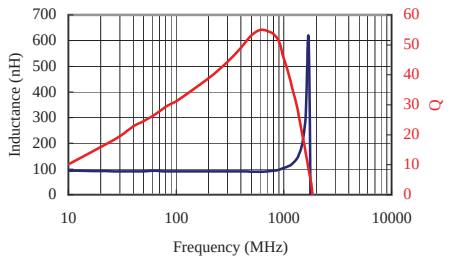

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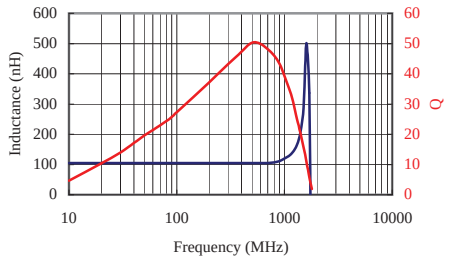

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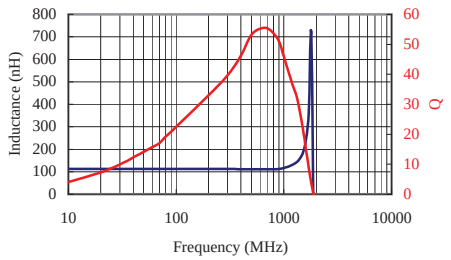

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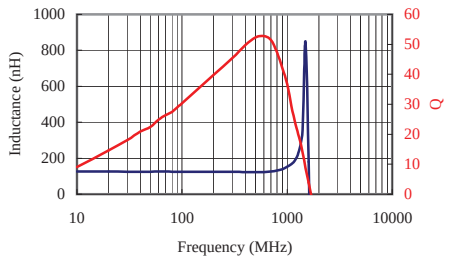

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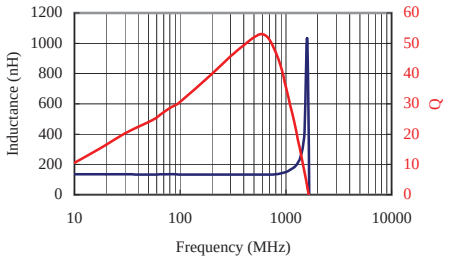

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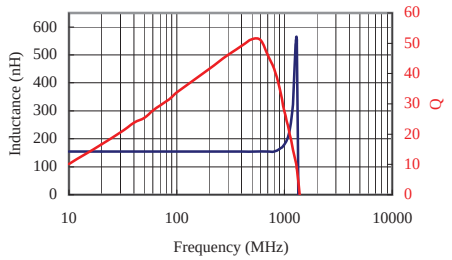

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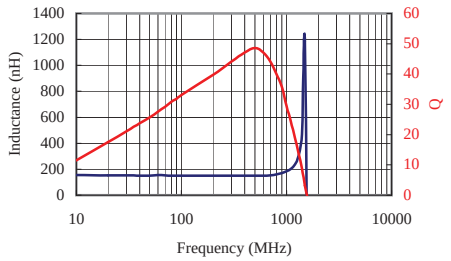

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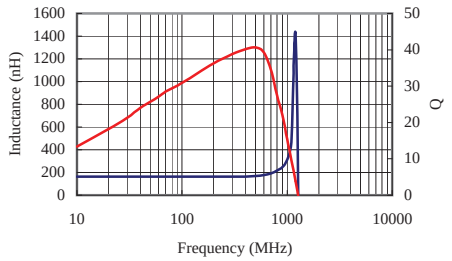

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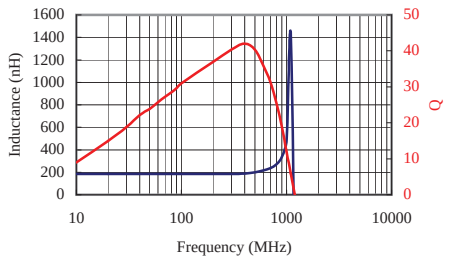

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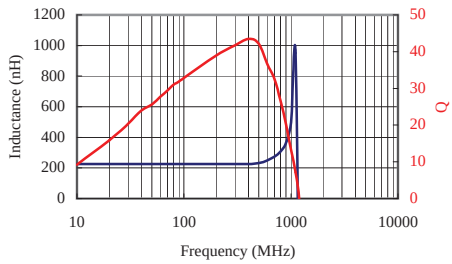

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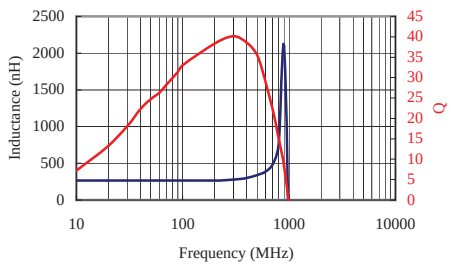

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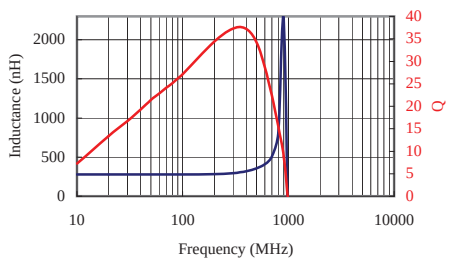

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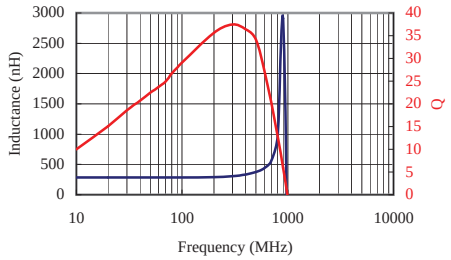

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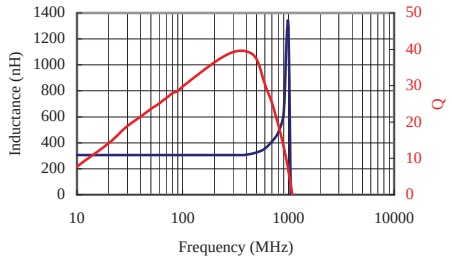

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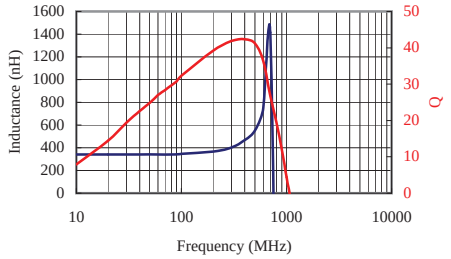

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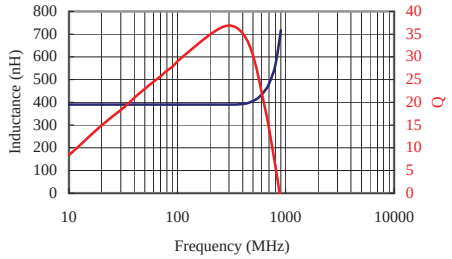

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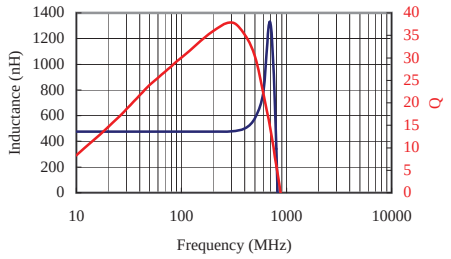

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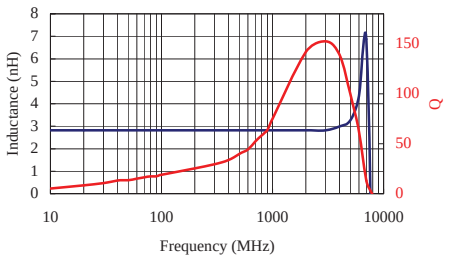

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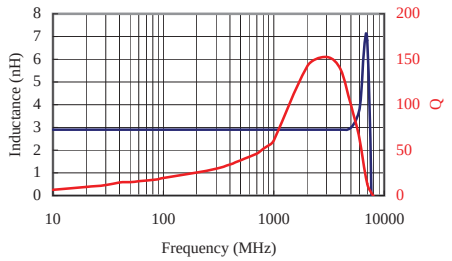

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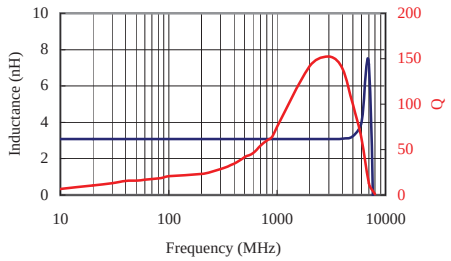

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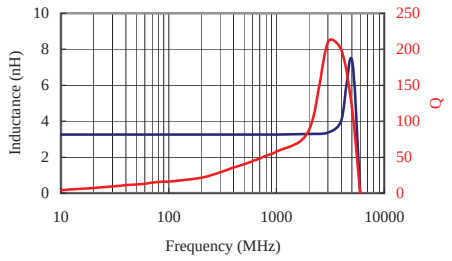

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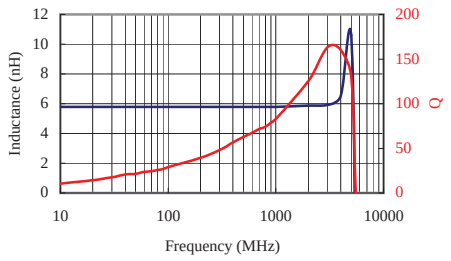

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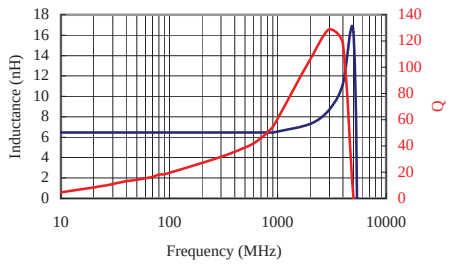

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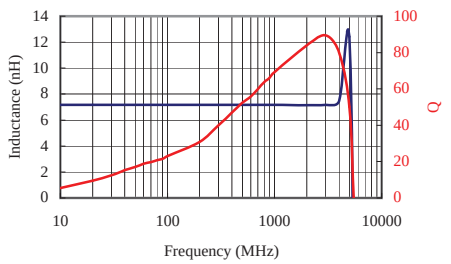

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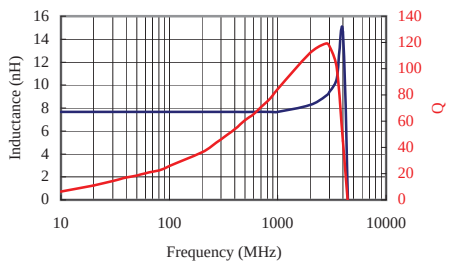

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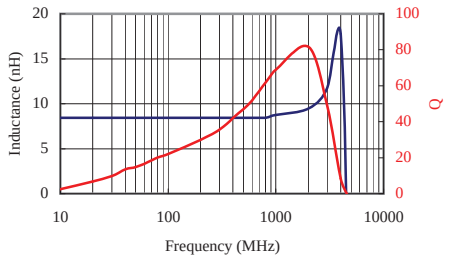

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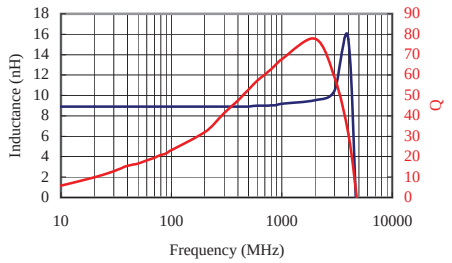

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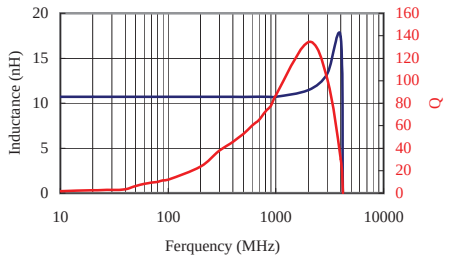

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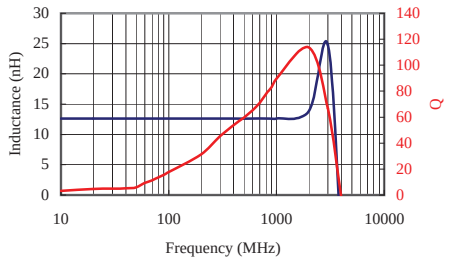

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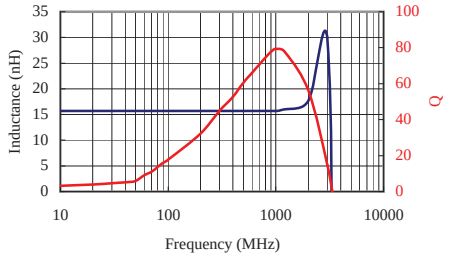

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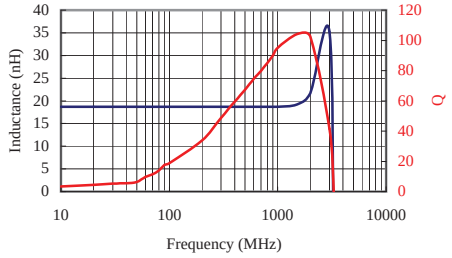

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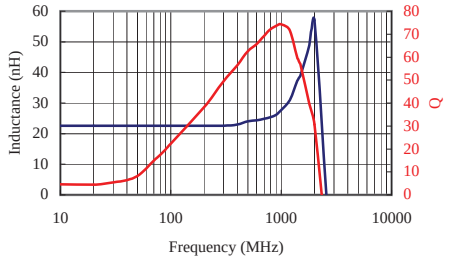

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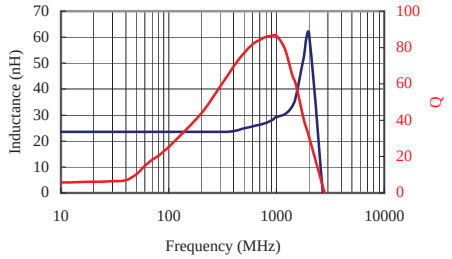

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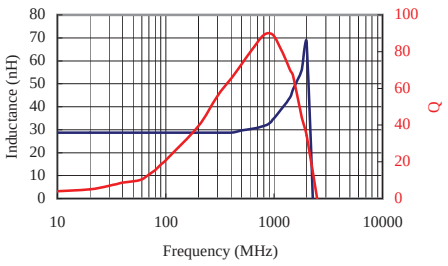

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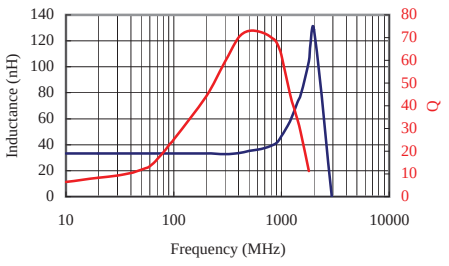

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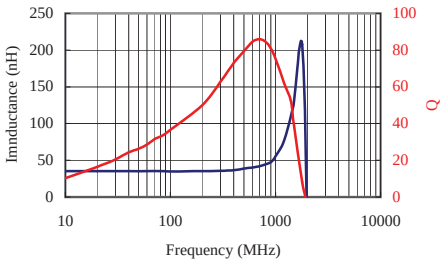

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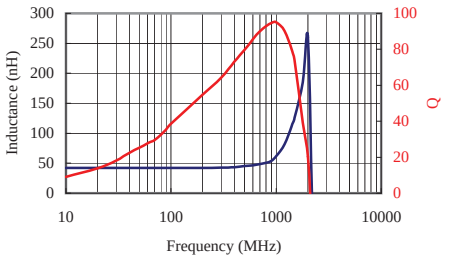

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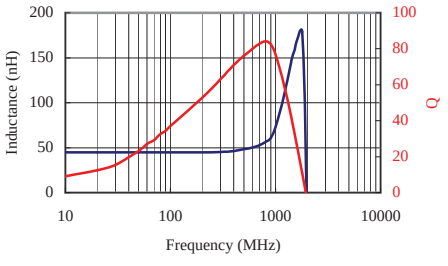

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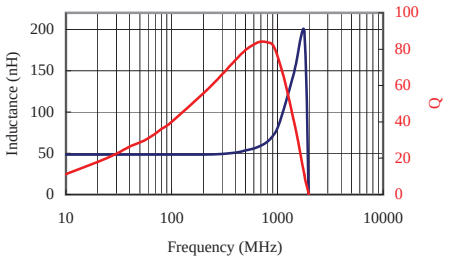

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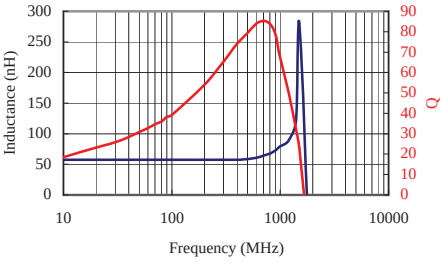

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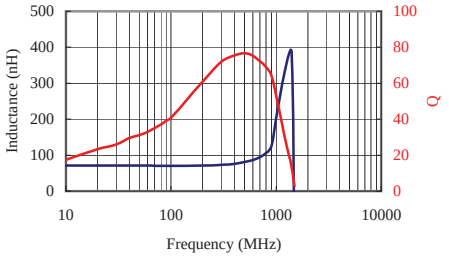

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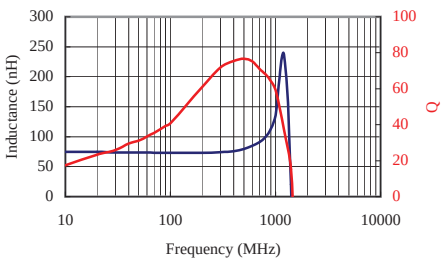

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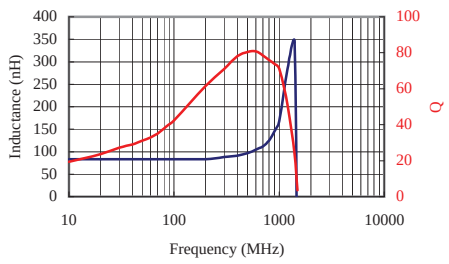

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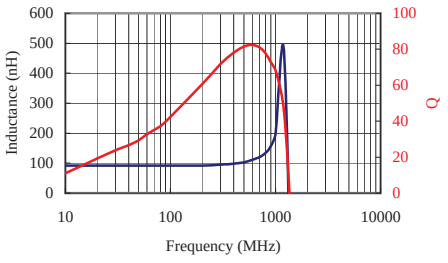

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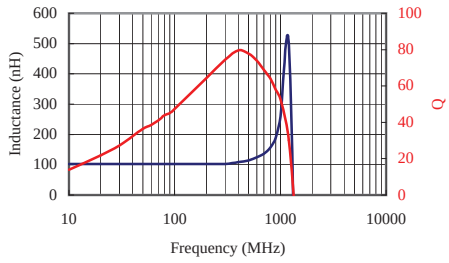

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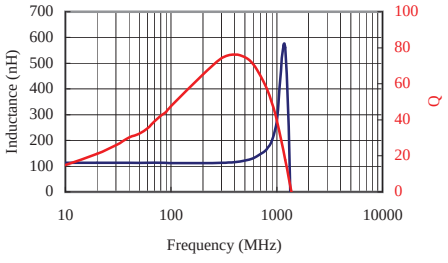

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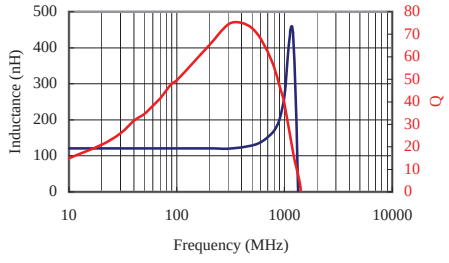

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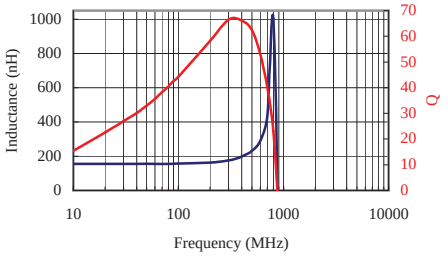

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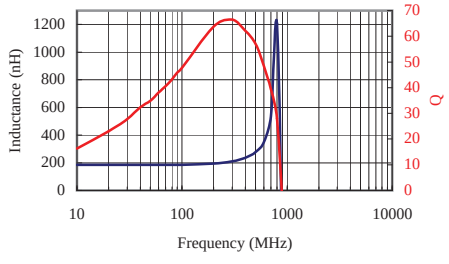

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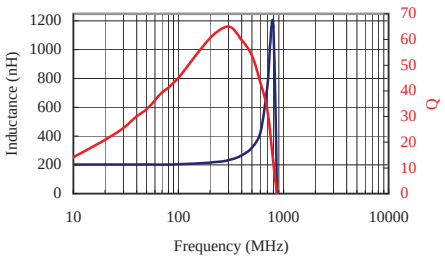

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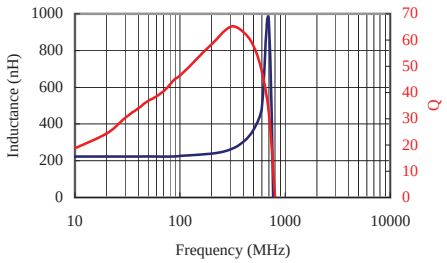

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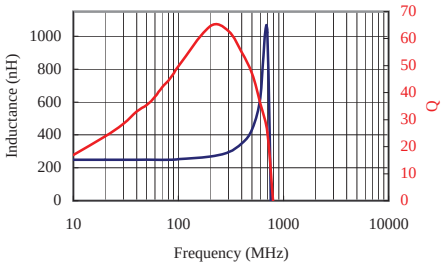

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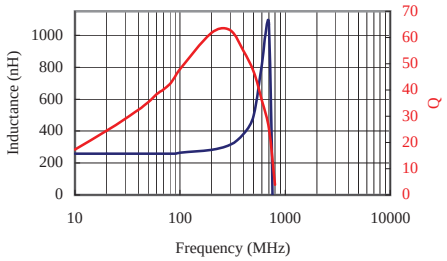

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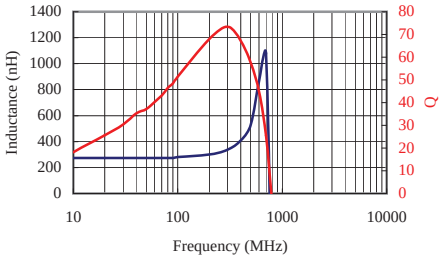

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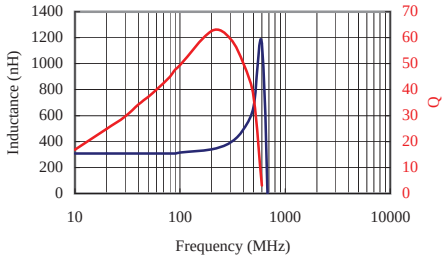

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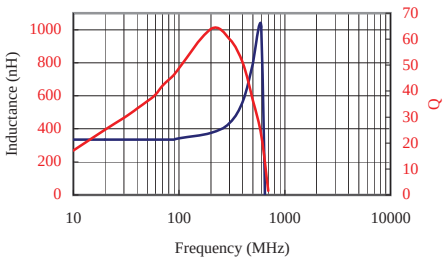

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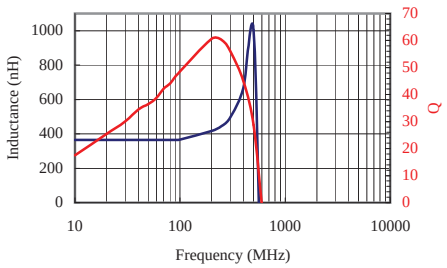

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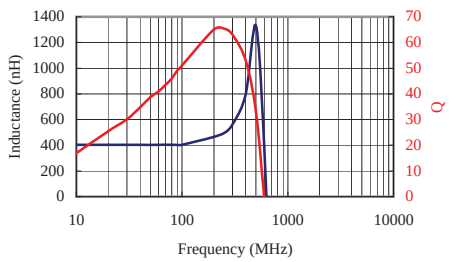

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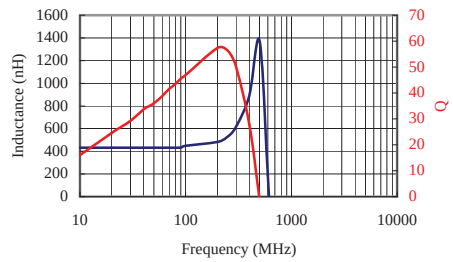

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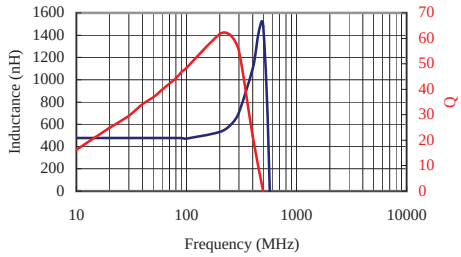

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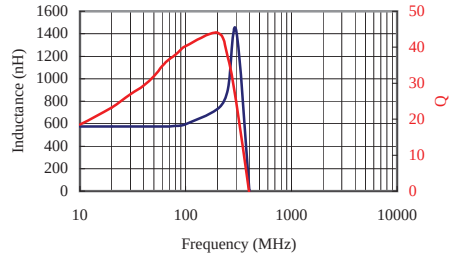

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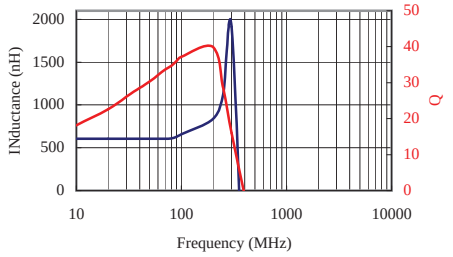

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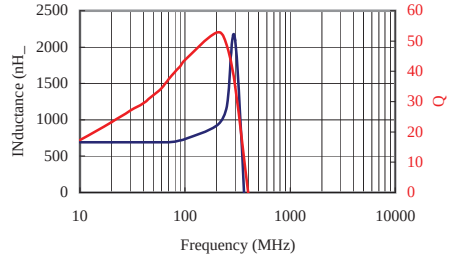

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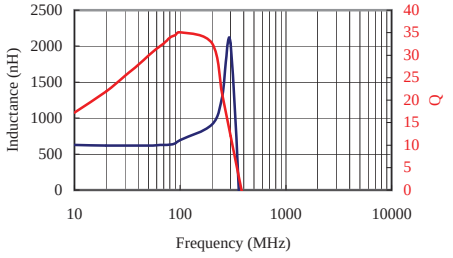

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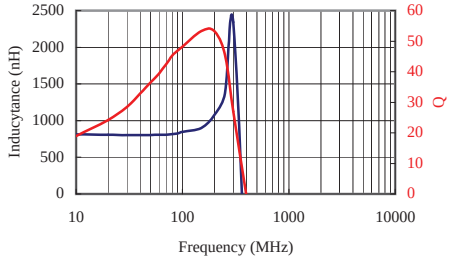

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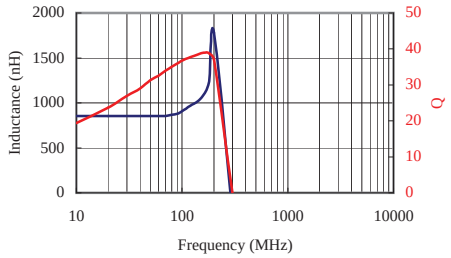

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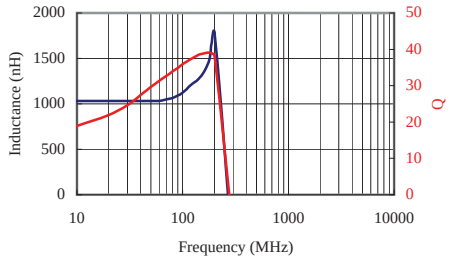

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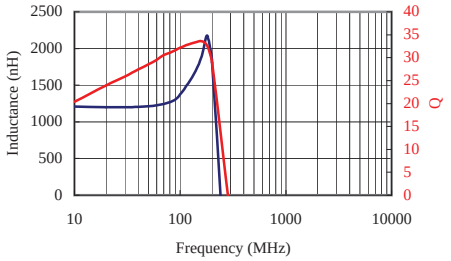

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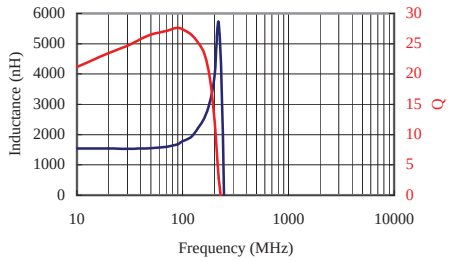

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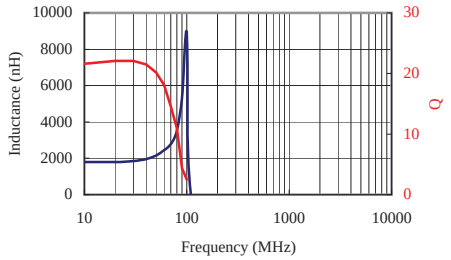

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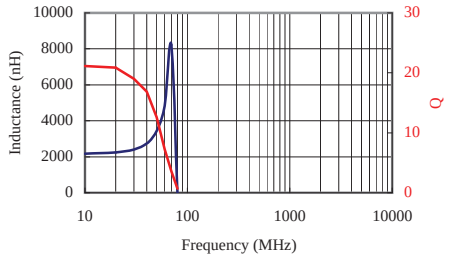

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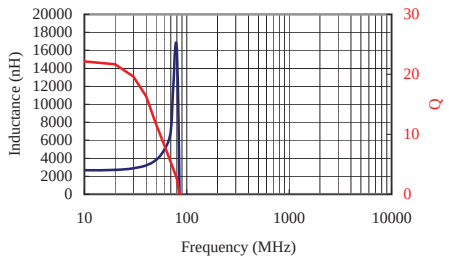

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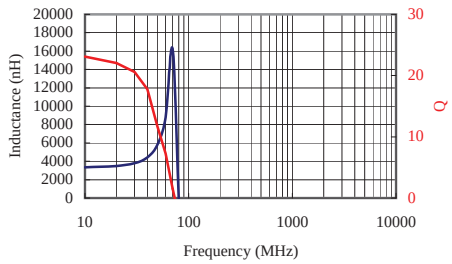

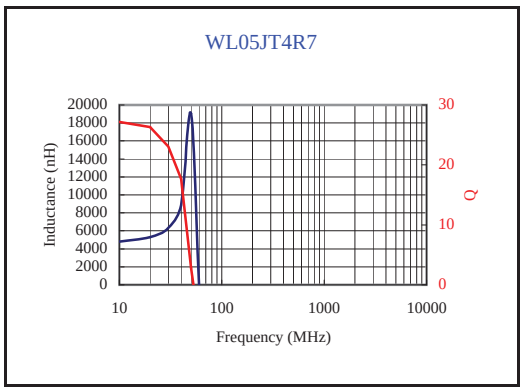
WL05JT4R7
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16000
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12000
10000
8000
6000
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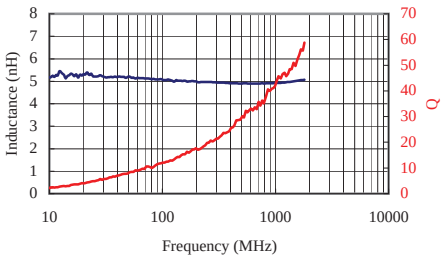
20
10
0
Q
10
100
1000
10000
Frequency (MHz)

WL08JT5N6



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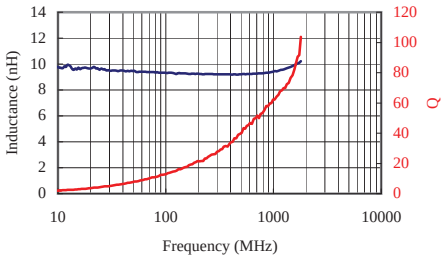

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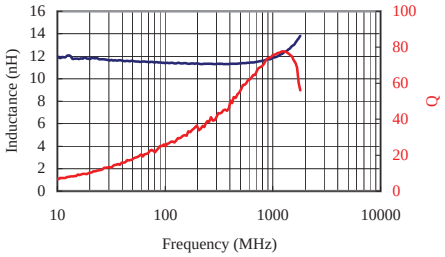

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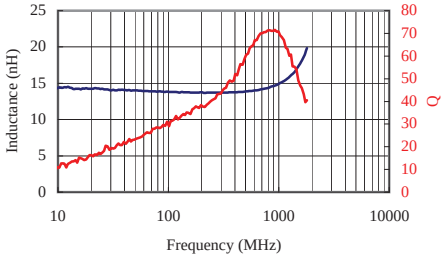

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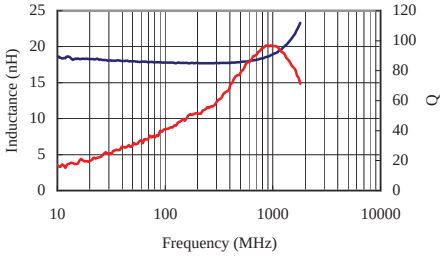

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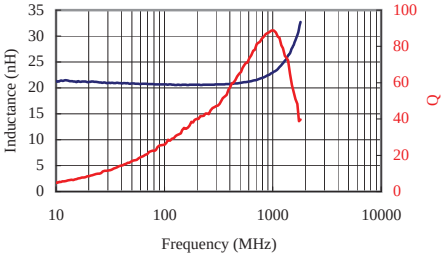

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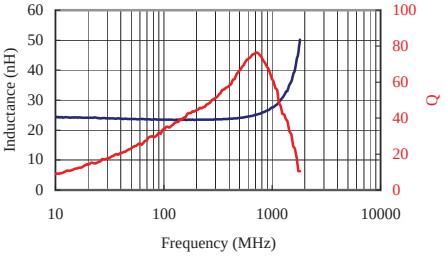

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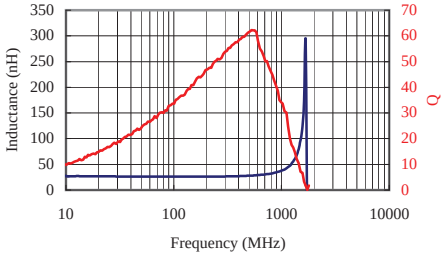

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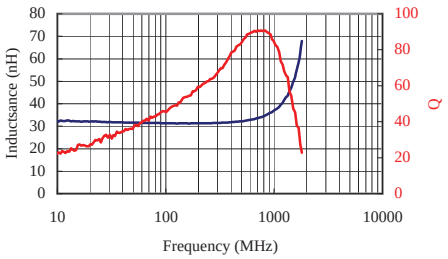

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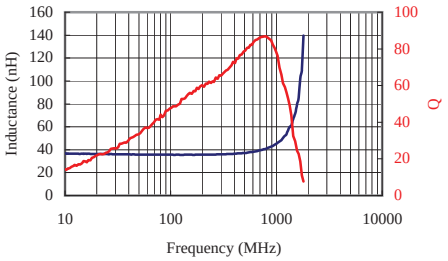

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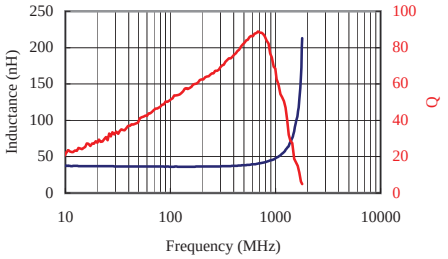

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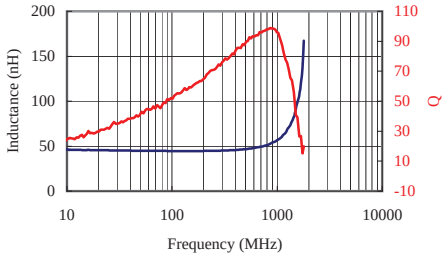

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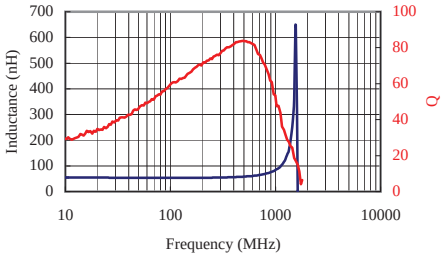

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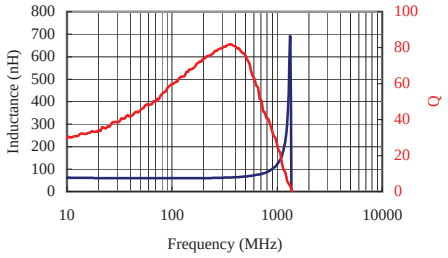

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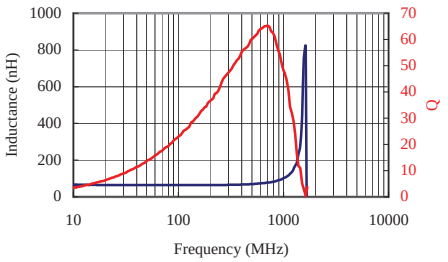

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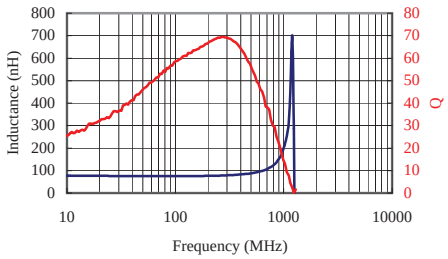

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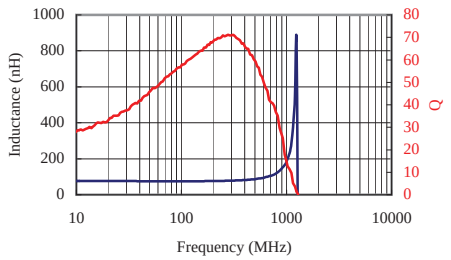

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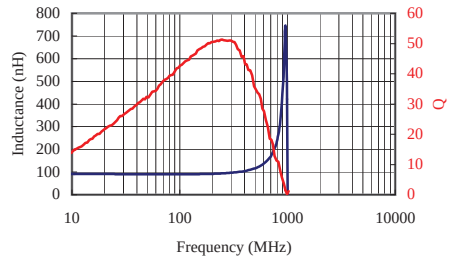

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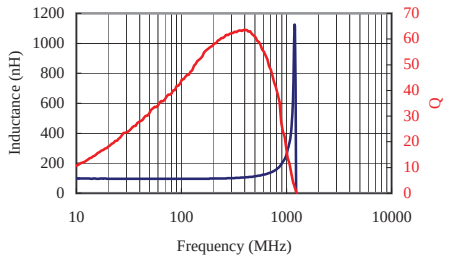

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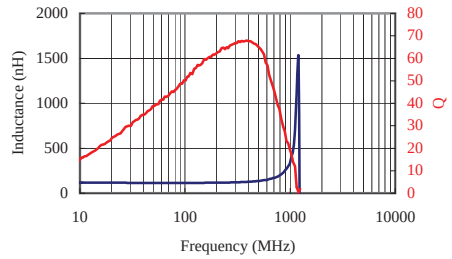

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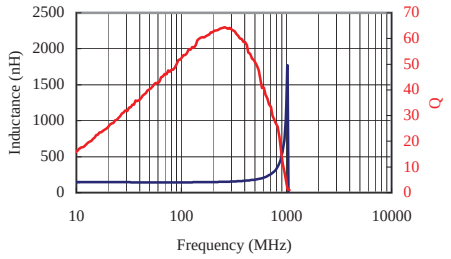

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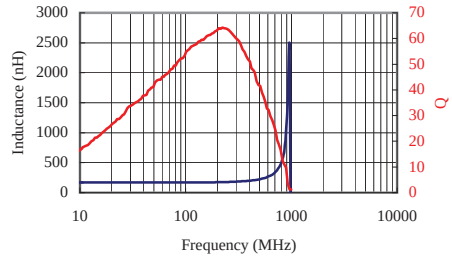

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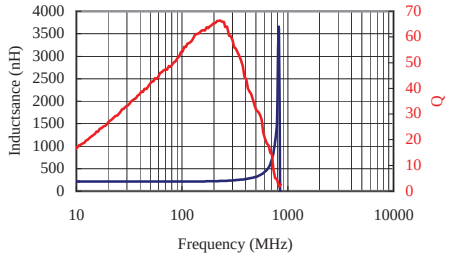

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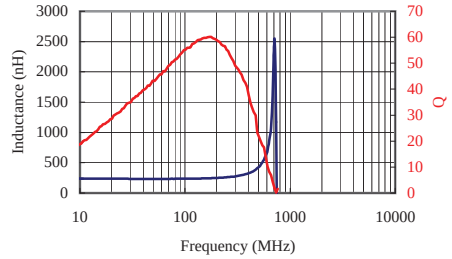

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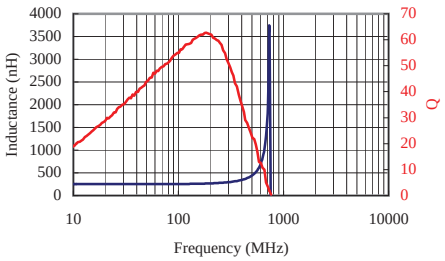

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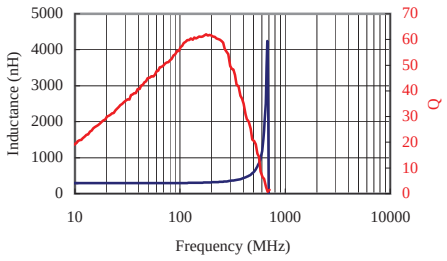

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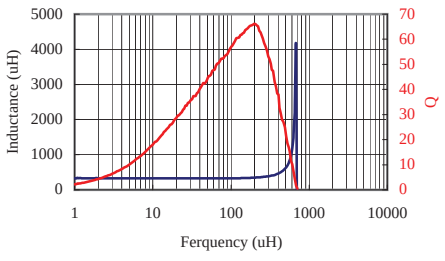

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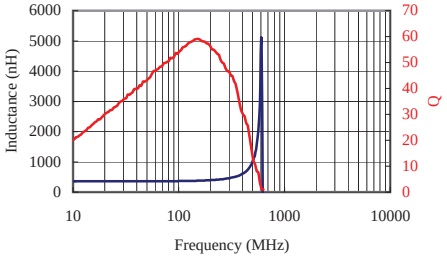

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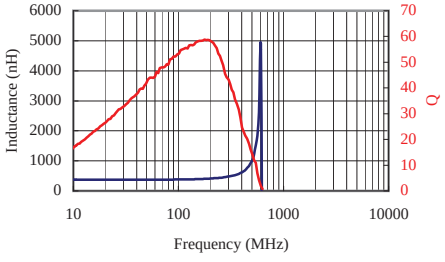

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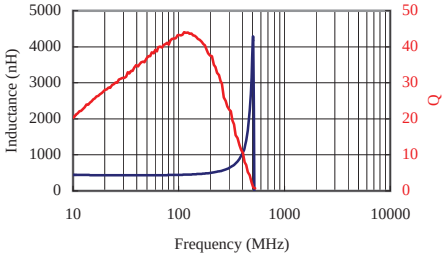

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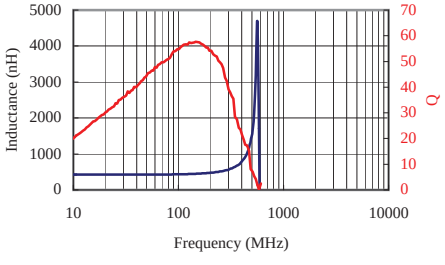

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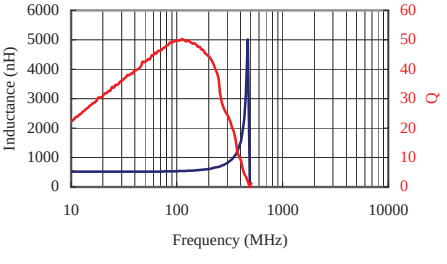

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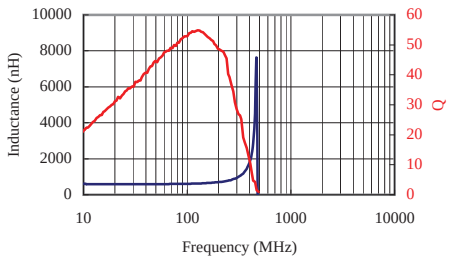

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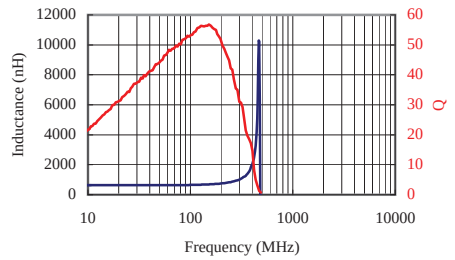

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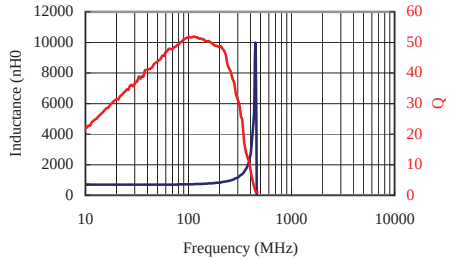
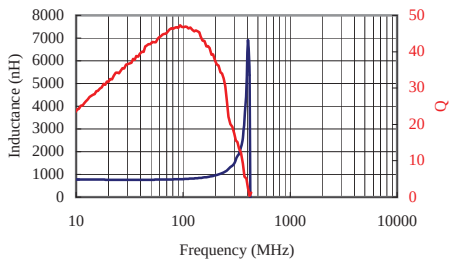


WL08JTR82



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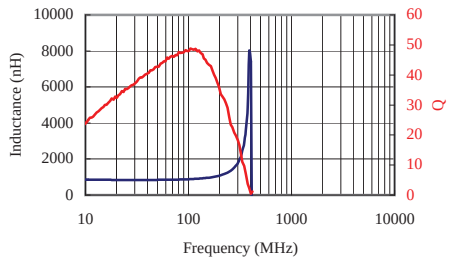

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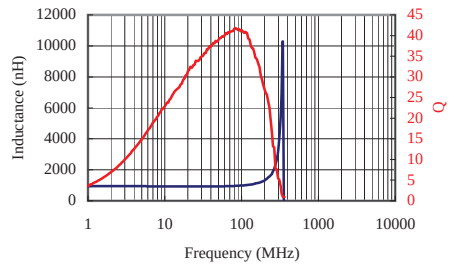

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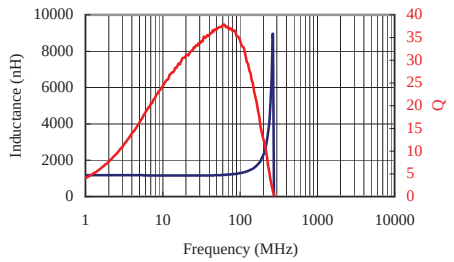

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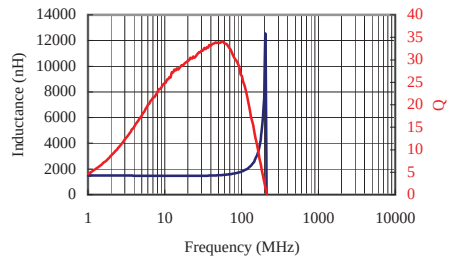

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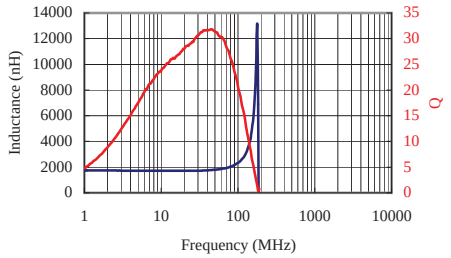

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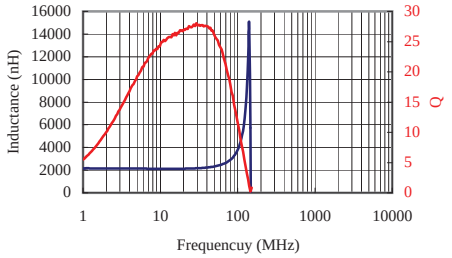

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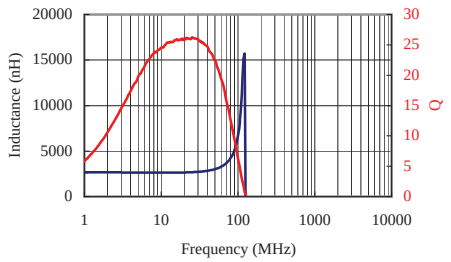

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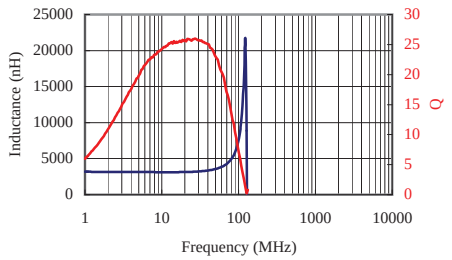

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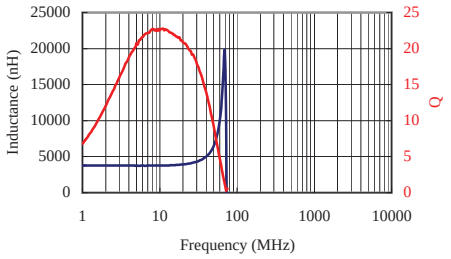

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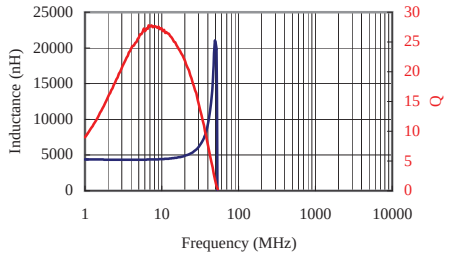

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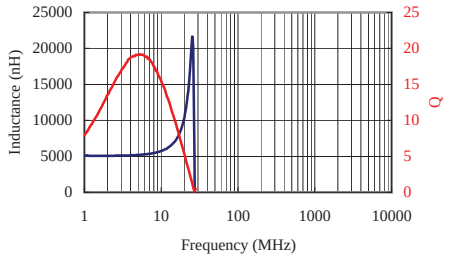

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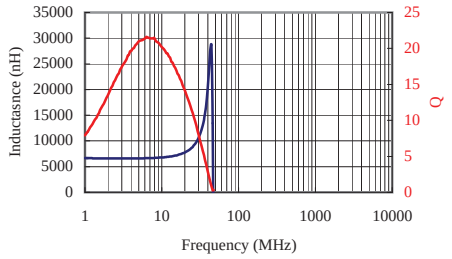

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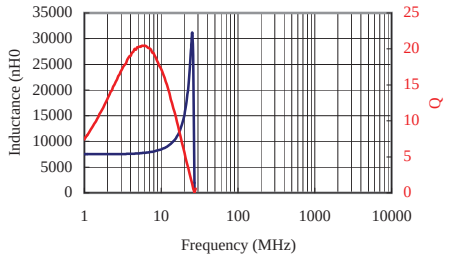

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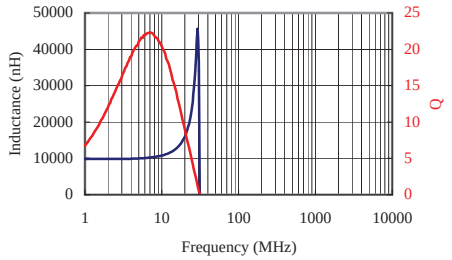

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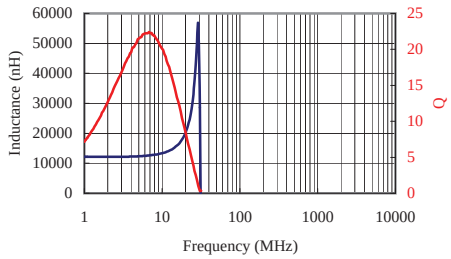

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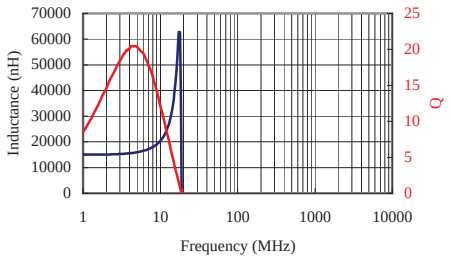
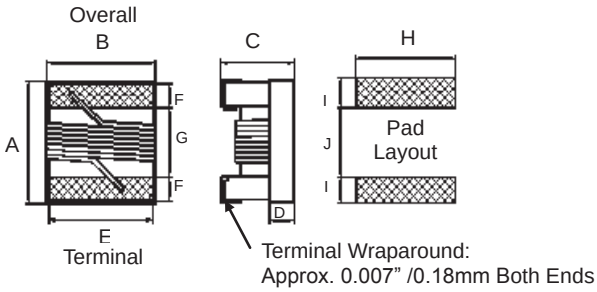


■Dimensions



Standard Unit: mm

Type	Size (Inch)	A max.	B max.	C max.	D Ref.	E	F	G	H	I	J	Weight (g) (1000pcs)
WL02	0402	1.27	0.76	0.61	0.15	0.51	0.23	0.56	0.66	0.50	0.46	0.8
WL03	0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64	3.46
WL05	0805	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76	12.13
WL08	1008	2.92	2.79	2.13	0.65	2.03	0.51	1.52	2.54	1.02	1.27	30.73
WL06	1206	3.45	1.90	1.40	0.50	1.60	0.50	2.20	1.93	1.02	1.78	40

Low Profile Unit: mm

Type	Size (Inch)	A max.	B max.	C max.	D Ref.	E	F	G	H	I	J
WL05	0805	2.29	1.73	1.03	0.51	1.27	0.44	1.02	1.78	1.02	0.76
WL08	1008	2.92	2.79	1.40	0.65	2.03	0.51	1.52	2.54	1.02	1.27

High Current / High Q Unit: mm

Type	Size (Inch)	A max.	B max.	C max.	D Ref.	E	F	G	H	I	J
WL03	0603	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
WL05	0805	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76
WL08	1008	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27

■Color Coding

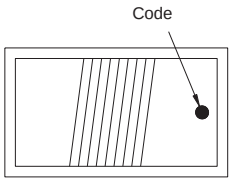
0603 / 0805 / 1008 Type

These parts are marked with a single color dot.

The inductance value represented by the dot is shown on the data page for each type.

0402 / 1206 / 0805(L) / 1008(L)/1008(H) Types are No Color Coding

0603(H)/0805(H) Types are No Black Color Coding



Color Coding

■Part Numbering

WL	02	J	T	L	1N6
Product Type	Dimensions (L×W)	Inductance Tolerance	Packaging Code	Design Code	Inductance
	02: 0402 03: 0603 05: 0805 08: 1008 06: 1206	C: ±0.2nH D: ±0.5nH G: ±2% H: ±3% J: ±5% K: ±10%	T: Taping Reel	: Standard Inductor L: Low Profile Inductor H: High Current and High Q	1N6: 1.6nH 82N: 82nH R27: 270nH 1R0: 1000nH 103: 10000nH

■Standard Electrical Specifications

WL02 Wire Wound Chip Inductors / Standard Type

Inductance (Nh)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (Ma) max.	900MHz		1.7GHz	
							L	Q	L	Q
1.0	±10%	250	16	12.70	0.045	1360	1.02	77	1.02	69
1.9	±10%	250	16	11.30	0.070	1040	1.72	68	1.74	82
2.0	±10%	250	16	11.10	0.070	1040	1.93	54	1.93	75
2.2	±10%	250	19	10.80	0.070	960	2.19	59	2.23	100
2.4	±10%	250	15	10.50	0.070	790	2.24	51	2.27	68
2.7	±10%	250	16	10.40	0.120	640	2.23	42	2.25	61
3.3	±10%	250	19	7.00	0.066	840	3.10	65	3.12	87
3.6	±5, ±10%	250	19	6.80	0.066	840	3.56	45	3.62	71
3.9	±5, ±10%	250	19	5.80	0.066	840	3.89	50	4.00	75
4.3	±5, ±10%	250	18	6.00	0.091	700	4.19	47	4.30	71
4.7	±5, ±10%	250	18	4.70	0.130	640	4.55	48	4.68	68
5.1	±5, ±10%	250	20	4.80	0.083	800	5.15	56	5.25	82
5.6	±5, ±10%	250	20	4.80	0.083	760	5.16	54	5.28	81
6.2	±5, ±10%	250	20	4.80	0.083	760	6.16	52	6.37	76
6.8	±5, ±10%	250	20	4.80	0.083	680	6.56	63	6.93	78
7.5	±5, ±10%	250	22	4.80	0.104	680	7.91	60	8.22	88
8.2	±5, ±10%	250	22	4.40	0.104	680	8.50	57	8.85	84
8.7	±5, ±10%	250	18	4.10	0.200	480	8.78	54	9.21	73
9.0	±5, ±10%	250	22	4.16	0.104	680	9.07	62	9.53	78
9.5	±5, ±10%	250	18	4.00	0.200	480	9.42	54	9.98	69
10	±2, ±5, ±10%	250	21	3.90	0.195	480	9.80	50	10.10	67
11	±2, ±5, ±10%	250	24	3.68	0.120	640	10.70	52	11.20	78
12	±2, ±5, ±10%	250	24	3.60	0.120	640	11.90	53	12.70	71
13	±2, ±5, ±10%	250	24	3.45	0.210	440	13.40	51	14.60	57
15	±2, ±5, ±10%	250	24	3.28	0.172	560	14.60	55	15.50	77
16	±2, ±5, ±10%	250	24	3.10	0.220	560	16.60	46	18.80	47
18	±2, ±5, ±10%	250	25	3.10	0.230	420	18.30	57	20.30	62
19	±2, ±5, ±10%	250	24	3.04	0.202	480	19.10	50	21.10	67
20	±2, ±5, ±10%	250	25	3.00	0.250	420	20.70	52	23.70	53
22	±2, ±5, ±10%	250	25	2.80	0.300	400	23.20	53	26.80	53
23	±2, ±5, ±10%	250	24	2.72	0.300	400	23.80	49	26.90	64
24	±2, ±5, ±10%	250	25	2.70	0.300	400	25.10	51	29.50	50
27	±2, ±5, ±10%	250	24	2.48	0.300	400	28.70	49	33.50	63
30	±2, ±5, ±10%	250	25	2.35	0.350	400	31.10	46	38.50	39
33	±2, ±5, ±10%	250	24	2.35	0.350	400	34.90	31	41.70	32
36	±2, ±5, ±10%	250	24	2.32	0.440	320	39.50	44	48.40	53
39	±2, ±5, ±10%	250	25	2.10	0.550	200	41.70	47	50.20	45
40	±2, ±5, ±10%	250	24	2.24	0.500	320	39.00	44	47.40	33
43	±2, ±5, ±10%	250	25	2.03	0.810	100	45.80	46	61.60	34
47	±2, ±5, ±10%	250	25	2.10	0.830	150	50.00	38	55.80	37
51	±2, ±5, ±10%	250	25	1.75	0.820	100	50.40	47	59.40	37
56	±2, ±5, ±10%	250	25	1.76	0.970	100	57.40	49	72.40	40
68	±2, ±5, ±10%	250	22	1.62	1.120	100	69.60	45	83.40	38
82	±2, ±5, ±10%	250	22	1.26	1.550	50	-	-	-	-
100	±2, ±5, ±10%	250	22	1.16	2.000	30	-	-	-	-
120	±2, ±5, ±10%	250	20	>1.80	2.660	50	-	-	-	-

WL03 Wire Wound Chip Inductors / Standard Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.	900MHz		1.7GHz		Color Code
							L	Q	L	Q	
1.6	±5, ±10%	250	24	12.5	0.030	700	1.53	35	1.58	55	Blue
1.8	±5, ±10%	250	16	12.5	0.045	700	1.63	35	1.66	50	Black
2.2	±5, ±10%	250	15	6.00	0.100	700	2.18	41	2.20	64	White
2.3	±5, ±10%	250	16	>4.00	0.140	700	2.32	32	2.35	40	Yellow
3.3	±2, ±5, ±10%	250	22	>6.00	0.080	700	3.35	47	3.40	65	Red
3.6	±2, ±5, ±10%	250	22	5.80	0.063	700	3.53	49	3.58	65	Violet
3.9	±2, ±5, ±10%	250	22	>6.00	0.080	700	3.95	49	3.96	67	Brown
4.3	±2, ±5, ±10%	250	22	5.80	0.063	700	4.32	49	4.43	67	Orange
4.5	±2, ±5, ±10%	250	20	5.80	0.120	700	4.74	55	4.87	92	Gray
4.7	±2, ±5, ±10%	250	25	5.80	0.120	700	4.65	53	4.80	67	Violet
5.1	±2, ±5, ±10%	250	20	5.80	0.160	700	5.13	47	5.36	56	Green
5.6	±2, ±5, ±10%	250	20	5.80	0.170	700	5.53	56	5.86	77	Yellow
6.2	±2, ±5, ±10%	250	25	5.80	0.110	700	6.28	60	6.40	85	Black
6.3	±2, ±5, ±10%	250	25	5.80	0.110	700	6.67	41	6.86	61	Black
6.8	±2, ±5, ±10%	250	27	5.80	0.110	700	6.75	60	7.10	81	Red
7.5	±2, ±5, ±10%	250	28	4.80	0.106	700	7.70	60	7.82	65	Brown
8.2	±2, ±5, ±10%	250	27	4.80	0.110	700	8.25	64	8.40	81	Green
8.7	±2, ±5, ±10%	250	28	4.80	0.109	700	8.86	62	9.32	58	Yellow
9.1	±2, ±5, ±10%	250	35	4.80	0.130	700	9.20	70	9.70	80	Black
9.5	±2, ±5, ±10%	250	28	5.40	0.135	700	9.70	59	9.92	61	Blue
10	±2, ±5, ±10%	250	31	4.80	0.130	700	10.0	66	10.6	83	Orange
11	±2, ±5, ±10%	250	31	4.00	0.086	700	11.3	53	12.1	56	Gray
12	±2, ±5, ±10%	250	35	4.00	0.130	700	12.3	72	13.5	83	Yellow
15	±2, ±5, ±10%	250	35	4.00	0.170	700	15.4	64	16.8	89	Green
16	±2, ±5, ±10%	250	35	3.30	0.110	700	16.5	55	18.0	52	White
17	±2, ±5, ±10%	250	35	3.20	0.170	700	17.6	56	19.4	44	Red
18	±2, ±5, ±10%	250	35	3.10	0.170	700	18.7	70	21.4	69	Blue
20	±2, ±5, ±10%	250	40	3.00	0.190	700	20.7	80	23.5	30	Green
22	±2, ±5, ±10%	250	38	3.00	0.190	700	22.8	73	26.1	71	Violet
23	±2, ±5, ±10%	250	38	2.85	0.190	700	24.1	71	28.0	71	Orange
24	±2, ±5, ±10%	250	38	2.80	0.130	700	25.7	45	30.9	40	Black
27	±2, ±5, ±10%	250	40	2.80	0.220	600	29.2	74	34.6	65	Gray
30	±2, ±5, ±10%	250	40	2.80	0.150	600	31.4	47	39.8	28	Brown
33	±2, ±5, ±10%	250	40	2.30	0.220	600	36.0	67	49.5	42	White
36	±2, ±5, ±10%	250	37	2.30	0.250	600	39.1	47	48.9	24	Red
39	±2, ±5, ±10%	250	40	2.20	0.250	600	42.7	60	60.2	40	Black
43	±2, ±5, ±10%	200	38	2.00	0.280	600	46.9	44	60.3	21	Orange
47	±2, ±5, ±10%	200	38	2.00	0.280	600	52.2	62	77.2	35	Brown
51	±2, ±5, ±10%	200	38	1.90	0.280	600	55.5	69	82.2	34	Blue
56	±2, ±5, ±10%	200	38	1.90	0.310	600	62.5	56	97.0	26	Red
62	±2, ±5, ±10%	200	37	1.80	0.340	600	68.0	40	110	10	Gray
68	±2, ±5, ±10%	200	37	1.70	0.340	600	80.5	54	168	21	Orange
72	±2, ±5, ±10%	150	34	1.70	0.490	600	82.0	53	135	20	Yellow
82	±2, ±5, ±10%	150	34	1.70	0.540	400	96.2	54	177	21	Green
91	±2, ±5, ±10%	150	30	1.70	0.500	400	110.0	50	416.4	6	Brown
100	±2, ±5, ±10%	150	34	1.40	0.580	400	124.0	49	319.5	13	Blue
110	±2, ±5, ±10%	150	32	1.35	0.610	300	138.0	43	342.7	15	Violet
120	±2, ±5, ±10%	150	32	1.30	0.650	300	166.0	39	529.3	8	Gray
130	±2, ±5, ±10%	150	30	1.40	0.720	300	185.0	60	-	-	White
140	±2, ±5, ±10%	100	28	1.30	0.870	280	190.0	80	-	-	Blue
150	±2, ±5, ±10%	100	28	1.30	0.950	280	230.0	25	-	-	White
160	±2, ±5, ±10%	100	25	1.30	1.400	280	215.0	20	-	-	Yellow
180	±2, ±5, ±10%	100	25	1.25	1.400	250	305.0	22	-	-	Black
220	±2, ±5, ±10%	100	25	1.20	1.600	250	377.0	21	-	-	Brown
260	±2, ±5, ±10%	100	25	1.00	2.000	200	469.0	21	-	-	Violet
270	±2, ±5, ±10%	100	25	0.90	2.100	200	523.0	19	-	-	Red
280	±2, ±5, ±10%	100	25	1.00	2.400	100	524.0	18	-	-	Green
300	±2, ±5, ±10%	100	25	0.75	2.500	150	539.7	21	-	-	Orange
330	±2, ±5, ±10%	100	25	0.90	3.800	100	680.4	20	-	-	Blue
390	±2, ±5, ±10%	100	25	0.90	4.350	100	734.5	29	-	-	Yellow
470	±2, ±5, ±10%	100	23	0.60	3.600	80	-	-	-	-	White

WL05 Wire Wound Chip Inductors / Standard Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.	Color Code
2.7	±5, ±10%	250	80 @ 1500MHz	7.900	0.06	800	Brown
2.8	±5, ±10%	250	80 @ 1500MHz	7.900	0.06	800	Gray
3.0	±5, ±10%	250	65 @ 1500MHz	7.900	0.06	800	White
3.3	±5, ±10%	250	50 @ 1500MHz	6.000	0.08	600	Black
5.6	±5, ±10%	250	65 @ 1000MHz	5.500	0.08	600	Orange
6.2	±5, ±10%	250	50 @ 1000MHz	5.500	0.11	600	Green
6.8	±5, ±10%	250	50 @ 1000MHz	5.500	0.11	600	Brown
7.5	±5, ±10%	250	50 @ 1000MHz	4.500	0.14	600	Green
8.2	±5, ±10%	250	50 @ 1000MHz	4.700	0.12	600	Red
8.7	±5, ±10%	250	50 @ 1000MHz	4.000	0.21	400	White
10	±2, ±5, ±10%	250	60 @ 500MHz	4.200	0.10	600	Blue
12	±2, ±5, ±10%	250	50 @ 500MHz	4.000	0.15	600	Orange
15	±2, ±5, ±10%	250	50 @ 500MHz	3.400	0.17	600	Yellow
18	±2, ±5, ±10%	250	50 @ 500MHz	3.300	0.20	600	Green
22	±2, ±5, ±10%	250	55 @ 500MHz	2.600	0.22	500	Blue
24	±2, ±5, ±10%	250	50 @ 500MHz	2.000	0.22	500	Gray
27	±2, ±5, ±10%	250	55 @ 500MHz	2.500	0.25	500	Violet
33	±2, ±5, ±10%	250	60 @ 500MHz	2.050	0.27	500	Gray
36	±2, ±5, ±10%	250	55 @ 500MHz	1.700	0.27	500	Orange
39	±2, ±5, ±10%	250	60 @ 500MHz	2.000	0.29	500	White
43	±2, ±5, ±10%	200	60 @ 500MHz	1.650	0.34	500	Yellow
47	±2, ±5, ±10%	200	60 @ 500MHz	1.650	0.31	500	Black
56	±2, ±5, ±10%	200	60 @ 500MHz	1.550	0.34	500	Brown
68	±2, ±5, ±10%	200	60 @ 500MHz	1.450	0.38	500	Red
72	±2, ±5, ±10%	150	65 @ 500MHz	1.400	0.40	500	Green
82	±2, ±5, ±10%	150	65 @ 500MHz	1.300	0.42	400	Orange
91	±2, ±5, ±10%	150	65 @ 500MHz	1.200	0.48	400	Black
100	±2, ±5, ±10%	150	65 @ 500MHz	1.200	0.46	400	Yellow
110	±2, ±5, ±10%	150	50 @ 250MHz	1.000	0.48	400	Brown
120	±2, ±5, ±10%	150	50 @ 250MHz	1.100	0.51	400	Green
150	±2, ±5, ±10%	100	50 @ 250MHz	0.920	0.56	400	Blue
180	±2, ±5, ±10%	100	50 @ 250MHz	0.870	0.64	400	Violet
200	±2, ±5, ±10%	100	50 @ 250MHz	0.860	0.66	400	Orange
220	±2, ±5, ±10%	100	50 @ 250MHz	0.850	0.70	400	Gray
240	±2, ±5, ±10%	100	44 @ 250MHz	0.690	1.00	350	Red
250	±2, ±5, ±10%	100	50 @ 250MHz	0.680	1.00	350	Green
270	±2, ±5, ±10%	100	48 @ 250MHz	0.650	1.00	350	White
300	±2, ±5, ±10%	100	48 @ 250MHz	0.620	1.20	330	Yellow
330	±2, ±5, ±10%	100	48 @ 250MHz	0.600	1.40	310	Black
360	±2, ±5, ±10%	100	48 @ 250MHz	0.580	1.45	300	Green
390	±2, ±5, ±10%	100	48 @ 250MHz	0.560	1.50	290	Brown
430	±2, ±5, ±10%	50	33 @ 100MHz	0.430	1.70	230	Blue
470	±2, ±5, ±10%	50	33 @ 100MHz	0.375	1.70	250	Red
560	±2, ±5, ±10%	25	23 @ 50MHz	0.340	1.90	230	Orange
600	±2, ±5, ±10%	25	23 @ 50MHz	0.260	1.60	450	White
620	±2, ±5, ±10%	25	23 @ 50MHz	0.220	2.20	210	Yellow
680	±2, ±5, ±10%	25	23 @ 50MHz	0.200	2.20	190	Green
750	±2, ±5, ±10%	25	23 @ 50MHz	0.200	2.30	180	Blue
820	±2, ±5, ±10%	25	23 @ 50MHz	0.200	2.35	180	Violet
1000	±2, ±5, ±10%	25	20 @ 50MHz	0.100	2.50	170	Gray
1200	±2, ±5, ±10%	7.9	18 @ 25MHz	0.100	2.50	170	White
1500	±2, ±5, ±10%	7.9	16 @ 25MHz	0.100	2.50	170	Black
1800	±2, ±5, ±10%	7.9	16 @ 7.9MHz	0.080	2.50	170	Brown
2200	±2, ±5, ±10%	7.9	16 @ 7.9MHz	0.060	2.70	160	Red
2700	±2, ±5, ±10%	7.9	16 @ 7.9MHz	0.050	3.10	150	Orange
3300	±2, ±5, ±10%	7.9	15 @ 7.9MHz	0.040	4.40	90	Blue
4700	±2, ±5, ±10%	7.9	15 @ 7.9MHz	0.040	6.40	90	Green

WL08 Wire Wound Chip Inductors / Standard Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.	Color Code
*5.6	±5, ±10%	50	50 @ 1500MHz	4.000	0.15	1000	Black
*10	±2, ±5, ±10%	50	50 @ 500MHz	4.100	0.08	1000	Brown
*12	±2, ±5, ±10%	50	50 @ 500MHz	3.300	0.09	1000	Red
*15	±2, ±5, ±10%	50	50 @ 500MHz	2.500	0.11	1000	Orange
*18	±2, ±5, ±10%	50	50 @ 350MHz	2.400	0.12	1000	Yellow
*22	±2, ±5, ±10%	50	55 @ 350MHz	2.400	0.12	1000	Green
24	±2, ±5, ±10%	50	55 @ 350MHz	1.900	0.13	1000	Blue
*27	±2, ±5, ±10%	50	55 @ 350MHz	1.600	0.13	1000	Violet
*33	±2, ±5, ±10%	50	60 @ 350MHz	1.600	0.14	1000	Gray
36	±2, ±5, ±10%	50	60 @ 350MHz	1.600	0.15	1000	Orange
*39	±2, ±5, ±10%	50	60 @ 350MHz	1.500	0.15	1000	White
*47	±2, ±5, ±10%	50	65 @ 350MHz	1.500	0.16	1000	Black
*56	±2, ±5, ±10%	50	65 @ 350MHz	1.300	0.18	1000	Brown
*62	±2, ±5, ±10%	50	65 @ 350MHz	1.250	0.20	1000	Blue
*68	±2, ±5, ±10%	50	65 @ 350MHz	1.300	0.20	1000	Red
75	±2, ±5, ±10%	50	60 @ 350MHz	1.100	0.21	1000	White
*82	±2, ±5, ±10%	50	60 @ 350MHz	1.000	0.22	1000	Orange
91	±2, ±5, ±10%	50	50 @ 350MHz	1.000	0.45	1000	White
*100	±2, ±5, ±10%	25	60 @ 350MHz	1.000	0.56	650	Yellow
*120	±2, ±5, ±10%	25	60 @ 350MHz	0.950	0.63	650	Green
*150	±2, ±5, ±10%	25	45 @ 100MHz	0.850	0.70	800	Blue
*180	±2, ±5, ±10%	25	45 @ 100MHz	0.750	0.77	620	Violet
*220	±2, ±5, ±10%	25	45 @ 100MHz	0.700	0.84	500	Gray
*240	±2, ±5, ±10%	25	45 @ 100MHz	0.650	0.88	500	White
*270	±2, ±5, ±10%	25	45 @ 100MHz	0.600	0.91	690	Black
*300	±2, ±5, ±10%	25	45 @ 100MHz	0.585	1.00	450	Brown
*330	±2, ±5, ±10%	25	45 @ 100MHz	0.570	1.05	450	Red
*360	±2, ±5, ±10%	25	45 @ 100MHz	0.530	1.10	470	Orange
*390	±2, ±5, ±10%	25	45 @ 100MHz	0.500	1.12	630	Yellow
*430	±2, ±5, ±10%	25	45 @ 100MHz	0.480	1.15	470	Green
*470	±2, ±5, ±10%	25	45 @ 100MHz	0.450	1.19	470	Blue
*560	±2, ±5, ±10%	25	45 @ 100MHz	0.415	1.33	580	Violet
*620	±2, ±5, ±10%	25	45 @ 100MHz	0.375	1.40	300	Gray
*680	±2, ±5, ±10%	25	45 @ 100MHz	0.375	1.47	540	White
*750	±2, ±5, ±10%	25	45 @ 100MHz	0.360	1.54	360	Black
*820	±2, ±5, ±10%	25	45 @ 100MHz	0.350	1.61	400	Brown
*910	±2, ±5, ±10%	25	35 @ 50MHz	0.320	1.68	380	Red
*1000	±2, ±5, ±10%	25	35 @ 50MHz	0.290	1.75	370	Orange
*1200	±2, ±5, ±10%	7.9	35 @ 50MHz	0.250	2.00	310	Yellow
*1500	±2, ±5, ±10%	7.9	28 @ 50MHz	0.200	2.30	330	Green
*1800	±2, ±5, ±10%	7.9	28 @ 50MHz	0.160	2.60	300	Blue
*2200	±2, ±5, ±10%	7.9	28 @ 50MHz	0.160	2.80	280	Violet
*2700	±2, ±5, ±10%	7.9	22 @ 25MHz	0.140	3.20	290	Gray
*3300	±2, ±5, ±10%	7.9	22 @ 25MHz	0.110	3.40	290	White
*3900	±2, ±5, ±10%	7.9	18 @ 25MHz	0.100	3.60	260	Black
*4700	±2, ±5, ±10%	7.9	18 @ 25MHz	0.090	4.00	260	Brown
5600	±2, ±5, ±10%	7.9	16 @ 7.96MHz	0.020	4.00	240	Red
6800	±2, ±5, ±10%	7.9	15 @ 7.96MHz	0.040	4.90	200	Orange
8200	±2, ±5, ±10%	7.9	15 @ 7.96MHz	0.025	6.00	170	Yellow
10000	±2, ±5, ±10%	2.52	15 @ 7.96MHz	0.020	9.00	150	Green
12000	±2, ±5, ±10%	2.52	15 @ 7.96MHz	0.018	10.5	130	Blue
15000	±2, ±5, ±10%	2.52	15 @ 7.96MHz	0.015	11.5	120	Violet

" * " Test Methods / Instrument: Network / Spectrum Analyzer

WL06 Wire Wound Chip Inductors / Standard Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
6.8	±5, ±10%	100	30 @ 300MHz	5.50	0.07	1000
10	±5, ±10%	100	40 @ 300MHz	4.00	0.08	1000
12	±5, ±10%	100	40 @ 300MHz	3.20	0.08	1000
15	±5, ±10%	100	40 @ 300MHz	3.20	0.10	1000
18	±5, ±10%	100	50 @ 300MHz	2.80	0.10	1000
22	±5, ±10%	100	50 @ 300MHz	2.20	0.10	1000
24	±5, ±10%	100	50 @ 300MHz	2.00	0.10	1000
27	±2, ±5, ±10%	100	50 @ 300MHz	1.80	0.11	1000
33	±2, ±5, ±10%	100	55 @ 300MHz	1.80	0.11	1000
39	±2, ±5, ±10%	100	55 @ 300MHz	1.80	0.12	1000
47	±2, ±5, ±10%	100	55 @ 300MHz	1.50	0.13	1000
56	±2, ±5, ±10%	100	55 @ 300MHz	1.45	0.14	1000
62	±2, ±5, ±10%	100	55 @ 300MHz	1.20	0.20	1000
68	±2, ±5, ±10%	100	55 @ 300MHz	1.20	0.26	950
82	±2, ±5, ±10%	100	55 @ 300MHz	1.20	0.21	920
91	±2, ±5, ±10%	100	55 @ 300MHz	1.10	0.24	900
100	±2, ±5, ±10%	100	55 @ 300MHz	1.10	0.26	850
120	±2, ±5, ±10%	100	55 @ 300MHz	0.75	0.26	800
150	±2, ±5, ±10%	100	60 @ 300MHz	0.95	0.31	750
180	±2, ±5, ±10%	50	55 @ 300MHz	0.90	0.43	700
220	±2, ±5, ±10%	50	55 @ 300MHz	0.76	0.50	670
270	±2, ±5, ±10%	50	55 @ 300MHz	0.74	0.56	630
300	±2, ±5, ±10%	50	50 @ 150MHz	0.68	0.60	600
330	±2, ±5, ±10%	50	45 @ 150MHz	0.65	0.62	590
360	±2, ±5, ±10%	50	45 @ 150MHz	0.60	0.65	550
390	±2, ±5, ±10%	50	45 @ 150MHz	0.60	0.75	530
470	±2, ±5, ±10%	50	45 @ 150MHz	0.55	1.30	490
560	±2, ±5, ±10%	35	45 @ 150MHz	0.47	1.34	460
620	±2, ±5, ±10%	35	45 @ 150MHz	0.47	1.58	460
680	±2, ±5, ±10%	35	45 @ 150MHz	0.45	1.58	430
750	±2, ±5, ±10%	35	45 @ 150MHz	0.44	2.25	320
820	±2, ±5, ±10%	35	45 @ 150MHz	0.42	1.82	400
910	±2, ±5, ±10%	35	45 @ 150MHz	0.41	2.95	310
1000	±2, ±5, ±10%	35	45 @ 150MHz	0.40	2.80	320
1200	±2, ±5, ±10%	35	45 @ 150MHz	0.38	3.20	300

■Low Profile Electrical Specifications

WL05 Wire Wound Chip Inductors / Low Profile Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
1.8	±5%	250	55 @ 1500MHz	9.40	0.03	800
3.9	±5, ±10%	250	60 @ 1000MHz	6.10	0.06	800
4.7	±5, ±10%	250	50 @ 1000MHz	5.50	0.06	800
6.8	±5, ±10%	250	50 @ 1000MHz	5.50	0.08	800
8.2	±5, ±10%	250	50 @ 1000MHz	4.80	0.08	800
10	±2, ±5, ±10%	250	55 @ 750MHz	3.30	0.08	800
12	±2, ±5, ±10%	250	55 @ 750MHz	3.80	0.10	800
15	±2, ±5, ±10%	250	50 @ 500MHz	2.95	0.10	800
18	±2, ±5, ±10%	250	50 @ 500MHz	3.10	0.13	800
22	±2, ±5, ±10%	250	50 @ 500MHz	2.90	0.15	800
27	±2, ±5, ±10%	250	50 @ 500MHz	2.45	0.23	600
33	±2, ±5, ±10%	250	50 @ 500MHz	2.35	0.28	600
39	±2, ±5, ±10%	250	50 @ 500MHz	2.20	0.33	600
47	±2, ±5, ±10%	200	50 @ 500MHz	2.00	0.39	600
56	±2, ±5, ±10%	200	50 @ 500MHz	1.85	0.39	500
68	±2, ±5, ±10%	200	50 @ 500MHz	1.50	0.40	500
82	±2, ±5, ±10%	150	50 @ 500MHz	1.50	0.44	500
100	±2, ±5, ±10%	150	50 @ 500MHz	1.20	0.64	400
120	±2, ±5, ±10%	150	40 @ 250MHz	1.15	0.68	300
150	±2, ±5, ±10%	150	40 @ 250MHz	1.05	0.80	300
1000	±2, ±5, ±10%	25	16 @ 50MHz	0.08	3.50	170

WL08 Wire Wound Chip Inductors / Low Profile Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
3.3	±5, ±10%	50	42 @ 1500MHz	6.00	0.03	1000
4.2	±5, ±10%	50	42 @ 1500MHz	6.00	0.15	1000
6.8	±5, ±10%	50	50 @ 1500MHz	5.40	0.17	1000
8.2	±5, ±10%	50	50 @ 1500MHz	5.00	0.22	1000
15	±5, ±10%	50	57 @ 500MHz	3.00	0.22	1000
18	±5, ±10%	50	50 @ 350MHz	2.40	0.12	1000
20	±5, ±10%	50	72 @ 500MHz	2.40	0.33	1000
27	±5, ±10%	50	50 @ 350MHz	1.60	0.13	850
30	±5, ±10%	50	69 @ 500MHz	2.40	0.38	600
40	±5, ±10%	50	67 @ 500MHz	2.00	0.43	600
50	±2, ±5, ±10%	50	72 @ 500MHz	1.90	0.48	600
60	±2, ±5, ±10%	50	75 @ 500MHz	1.80	0.52	600
70	±2, ±5, ±10%	50	68 @ 500MHz	1.70	0.55	510
80	±2, ±5, ±10%	50	75 @ 500MHz	1.40	0.56	510
180	±2, ±5, ±10%	50	50 @ 350MHz	0.90	0.40	450
560	±2, ±5, ±10%	25	40 @ 100MHz	0.415	1.33	400

■High Current Electrical Specifications

WL03 Wire Wound Chip Inductors / High Current Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.	Color Code
1.6	±5, ±10%	250	24	12.50	0.030	2400	None
3.6	±5, ±10%	250	24	5.90	0.048	2300	Brown
3.9	±5, ±10%	250	25	5.90	0.054	2200	Red
6.8	±5, ±10%	250	35	5.80	0.054	2100	Orange
7.5	±5, ±10%	250	38	3.70	0.059	2100	Yellow
8.2	±5, ±10%	250	38	3.70	0.060	2000	White
10	±2, ±5, ±10%	250	38	3.70	0.071	2000	Green
12	±2, ±5, ±10%	250	38	3.00	0.075	2000	Blue
15	±2, ±5, ±10%	250	38	2.80	0.080	1900	Violet
18	±2, ±5, ±10%	250	40	2.80	0.099	1900	Gray
22	±2, ±5, ±10%	250	42	2.40	0.099	1800	White
24	±2, ±5, ±10%	250	42	2.40	0.105	1800	None

■High Q Electrical Specifications

WL05 Wire Wound Chip Inductors / High Q Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.	Color Code
2.5	±5, ±10%	250	80 @ 1500MHz	6.00	0.020	1600	None
5.6	±5, ±10%	250	98 @ 1500MHz	6.00	0.035	1600	Brown
6.2	±5, ±10%	250	88 @ 1000MHz	4.75	0.035	1600	Red
6.8	±5, ±10%	250	80 @ 1000MHz	4.40	0.035	1600	White
8.2	±5, ±10%	250	75 @ 1000MHz	3.00	0.075	1000	Gray
10	±5, ±10%	250	80 @ 1000MHz	3.00	0.060	1600	None
12	±5, ±10%	250	80 @ 1000MHz	3.00	0.045	1600	Orange
15	±2, ±5, ±10%	250	80 @ 1000MHz	2.80	0.100	1200	None
16	±2, ±5, ±10%	250	72 @ 500MHz	2.95	0.060	1500	Yellow
18	±2, ±5, ±10%	250	75 @ 500MHz	2.55	0.060	1400	Green
20	±2, ±5, ±10%	250	70 @ 500MHz	2.05	0.055	1400	Blue
22	±2, ±5, ±10%	250	80 @ 500MHz	2.00	0.100	1200	None
27	±2, ±5, ±10%	250	75 @ 500MHz	2.00	0.070	1300	Violet
30	±2, ±5, ±10%	250	65 @ 500MHz	1.95	0.095	1200	Gray
39	±2, ±5, ±10%	250	65 @ 500MHz	1.60	0.110	1100	White
48	±2, ±5, ±10%	200	65 @ 500MHz	1.40	0.095	1200	None
51	±2, ±5, ±10%	200	65 @ 500MHz	1.40	0.120	1000	Brown

WL08 Wire Wound Chip Inductors / High Q Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
3.0	±5, ±10%	50	70 @ 1500MHz	6.00	0.04	1600
3.9	±5, ±10%	50	75 @ 1500MHz	6.00	0.05	1600
4.1	±5, ±10%	50	75 @ 1500MHz	6.00	0.05	1600
7.8	±5, ±10%	50	75 @ 500MHz	3.80	0.05	1600
10	±2, ±5, ±10%	50	60 @ 500MHz	3.60	0.06	1600
12	±2, ±5, ±10%	50	70 @ 500MHz	2.80	0.06	1500
18	±2, ±5, ±10%	50	62 @ 350MHz	2.70	0.07	1400
22	±2, ±5, ±10%	50	62 @ 350MHz	2.05	0.07	1400
33	±2, ±5, ±10%	50	75 @ 350MHz	1.70	0.09	1300
39	±2, ±5, ±10%	50	75 @ 350MHz	1.30	0.09	1300
47	±2, ±5, ±10%	50	75 @ 350MHz	1.45	0.12	1200
56	±2, ±5, ±10%	50	75 @ 350MHz	1.23	0.12	1200
68	±2, ±5, ±10%	50	80 @ 350MHz	1.15	0.13	1100
82	±2, ±5, ±10%	50	80 @ 350MHz	1.06	0.16	1100
100	±2, ±5, ±10%	50	50 @ 350MHz	0.82	0.16	1000

■Parts (3.0nH, 7.8nH) are wound on a low profile bobbin. (Max 2.41×2.01×1.09)

■Environmental Characteristics

Electrical Performance Test

Item	Requirement	Test Method
Inductance	Refer to standard electrical characteristic spec.	HP4286
Q		HP4286
SRF		HP4287
DC Resistance RDC		Micro-Ohm meter (Gom-801G)
Rated Current IDC		Applied the current to coils, The inductance change should be less than 10% to initial value
Over Load	Inductors shall have no evidence of electrical and mechanical damage	Applied 2 times of rated allowed DC current to inductor for a period of 5 minutes
Withstanding Voltage	Inductors shall be no evidence of electrical and mechanical damage.	AC voltage of 500 VAC applied between inductors terminal and case for 1 min.
Insulation Resistance	1000M ohm min.	100 V_{DC} applied between inductor terminal and case

Mechanical Performance Test

Item	Requirement	Test Method
Vibration	Appearance: No damage L change: within ±5% Q change: within ±10%	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1 min. Amplitude: 1.5 mm Time: 2 hrs for each axis (X, Y &Z), total 6 hrs
Resistance to Soldering Heat		Solder Temperature: 260±5°C Immersion Time: 10±2 seconds
Component Adhesion (Push Test)	1 bs. For 0402 2 bs. For 0603 3 bs. For the rest	The device should be soldered (260±5 for 10 seconds) to a tinned copper subs rate. A dynamiter force gauge should be applied to the side of the component. The device must with stand a minimum force of 2 or 4 pounds without a failure of adhesion on termination
Drop	No damage	Dropping chip by each side and each corner. Drop 10 times in total Drop height: 100 cm Drop weight: 125 g
Solderability	90% covered with solder	Inductor shall be dipped in a melted solder bath at 245±5 for 3 seconds
Resistance to Solvent	No damage on appearance and marking	MIL-STD-202F, Method 215D

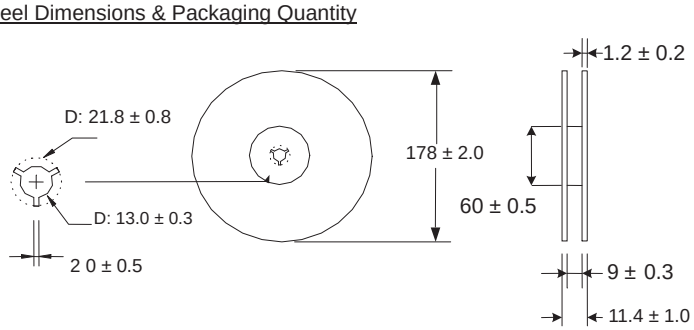
Climatic Test

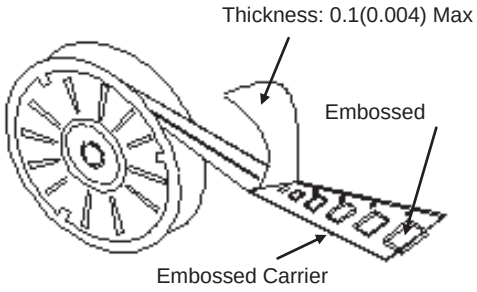
Item	Requirement	Item
Temperature Characteristic	Appearance: No damage L change: within ±10% Q change: within ±20%	-40~+125°C
Humidity		Temperature: 40±2°C Relative Humidity: 90~95% Time: 96±2 hrs Measured after exposure in the room condition for 2 hrs
Low Temperature Storage		Temperature: -40±2°C Time: 96±2 hrs Inductors are tested after 1 hour at room temperature
Thermal Shock		One cycle: Step / Temperature（°C） / Time（min.） 1 / -25±3 / 30 2 / 25±2 / 15 3 / 125±3 / 30 4 / 25±2 / 15 Total: 5 cycles
High Temperature Storage		Temperature: 125±2°C Time: 96±2 hrs Measured after exposure in the room condition for 1hour
High Temperature Load Life	There should be no evidence of short of open circuit.	Temperature: 85±2°C Time: 1000±12 hrs Load: Allowed DC current
Damp Heat with Load		Temperature: 40±2°C Relative Humidity: 90~95% Time: 1000±12 hrs Load: Allowed DC current

Storage Temperature: 25±3°C; Humidity < 80%RH

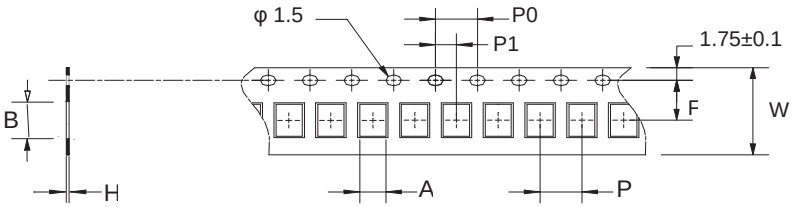
■Packaging

Reel Dimensions & Packaging Quantity





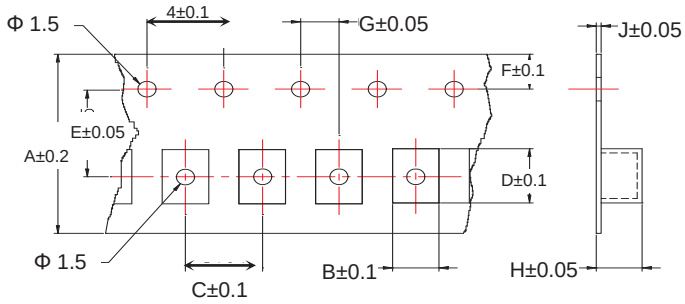
Paper Tape specification and Packaging Quantity



Unit : mm

Type	A	B	H	F	P	P_0	P_1	W	Reel (EA)
WL02	0.72	1.19	0.60	3.50	2.00	4.00	2.00	8.00	4,000
WL03	1.35	1.95	0.95	3.50	4.00	4.00	2.00	8.00	4,000

Embossed Plastic Tape specification and Packaging Quantity



Unit: mm

Type	A	B	C	D	E	F	G	H	J	Reel (EA)
WL05	8	1.85	4	2.30	3.5	1.75	2	1.45	0.23	2000
WL05 (L)	8	1.80	4	2.30	3.5	1.75	2	0.90	0.23	2000
WL05 (H)	8	1.85	4	2.30	3.5	1.75	2	1.45	0.23	2000
WL06	8	1.95	4	3.50	3.5	1.75	2	1.50	0.23	2000
WL08	8	2.70	4	2.80	3.5	1.75	2	2.00	0.23	2000
WL08 (L)	8	2.70	4	2.80	3.5	1.75	2	1.50	0.23	2000
WL08 (H)	8	2.70	4	2.80	3.5	1.75	2	2.00	0.23	2000

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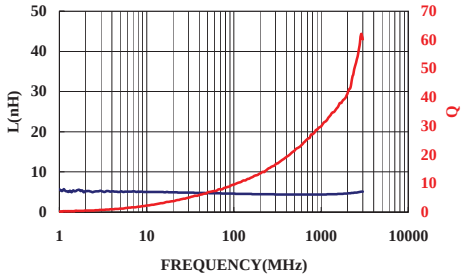

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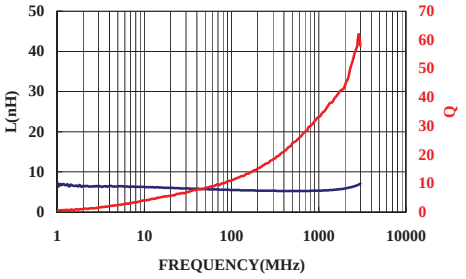

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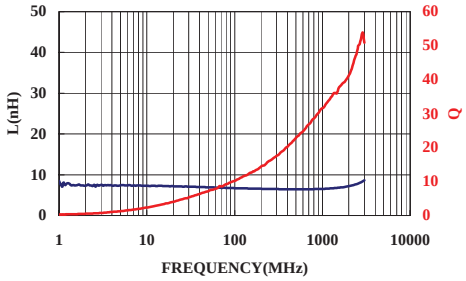

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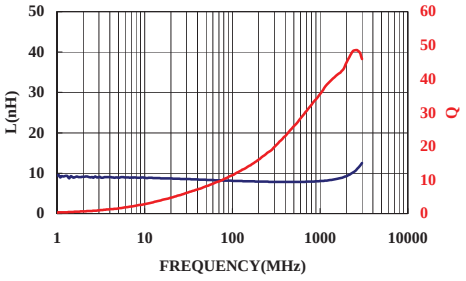

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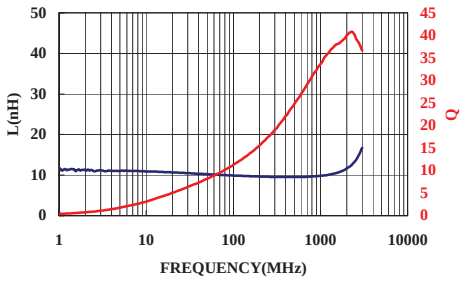

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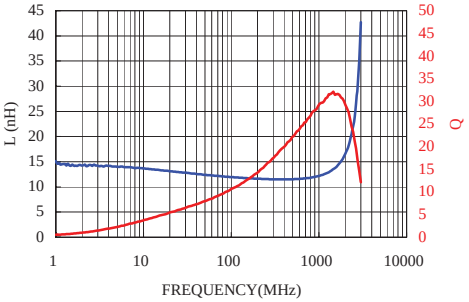

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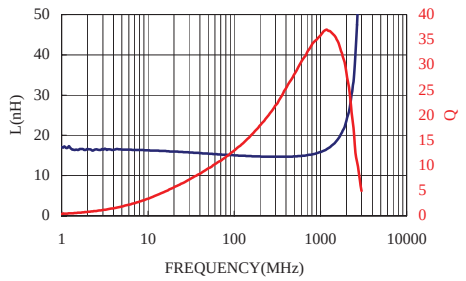

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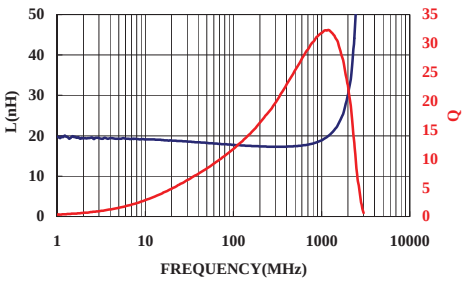

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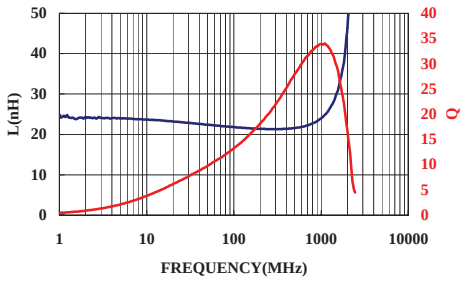

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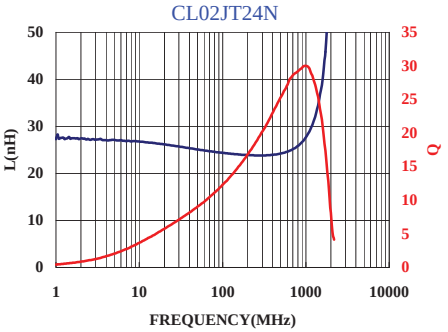

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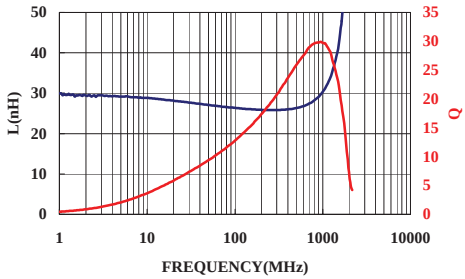

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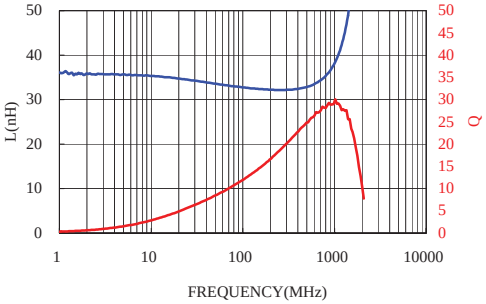

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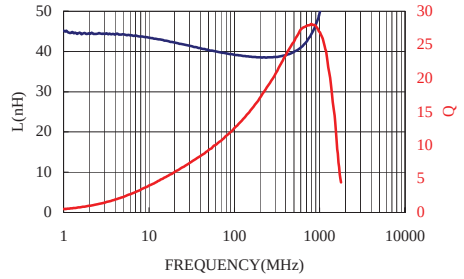

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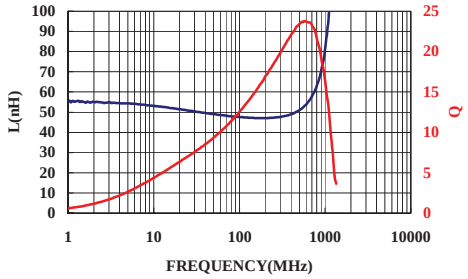

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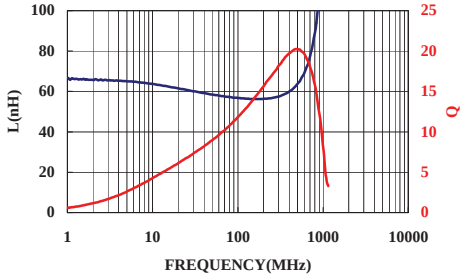

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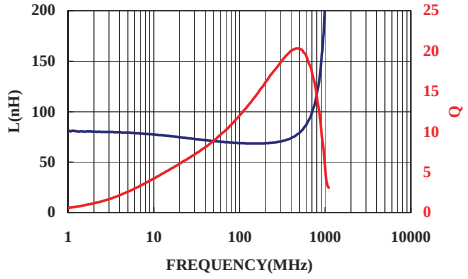

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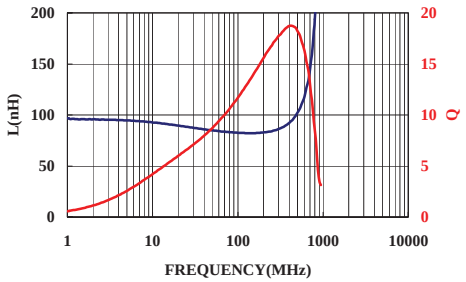

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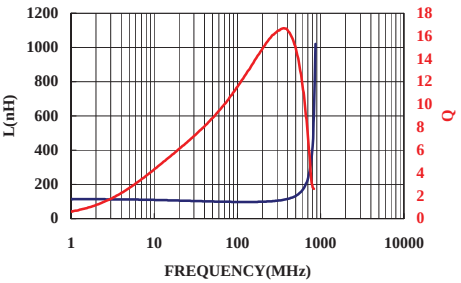

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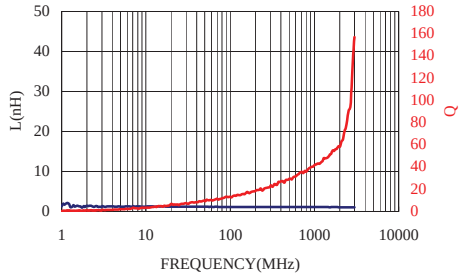

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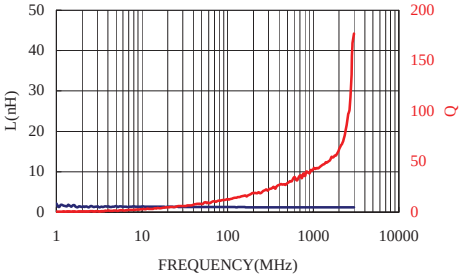

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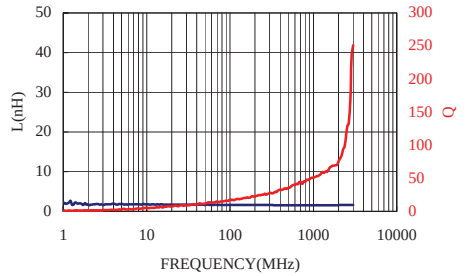

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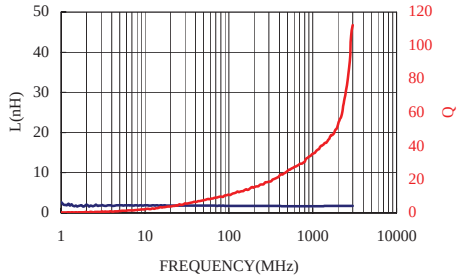

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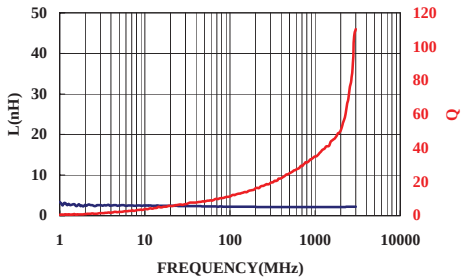

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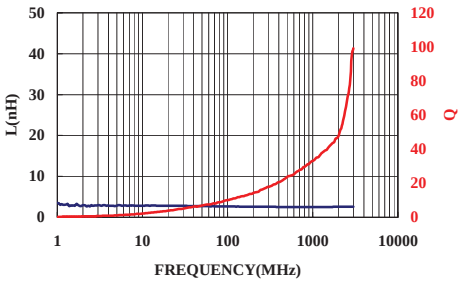

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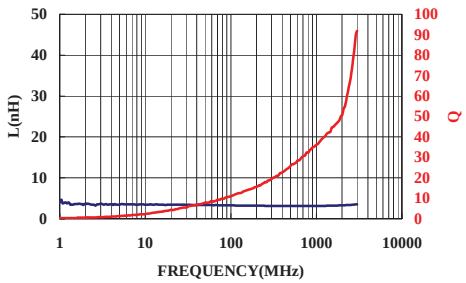

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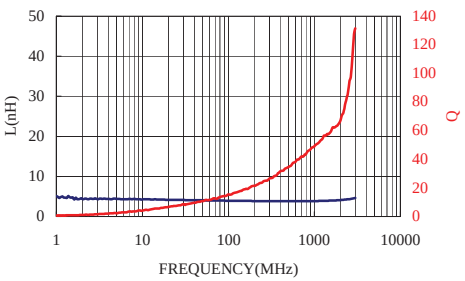

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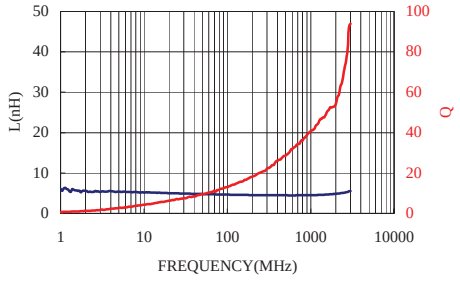

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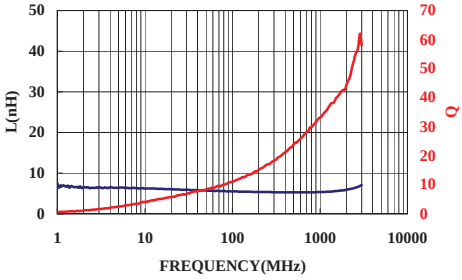

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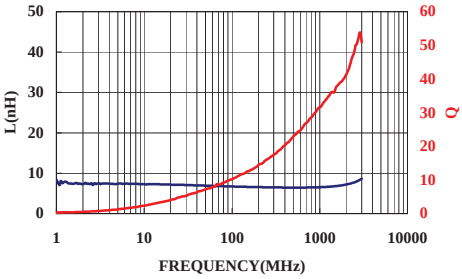

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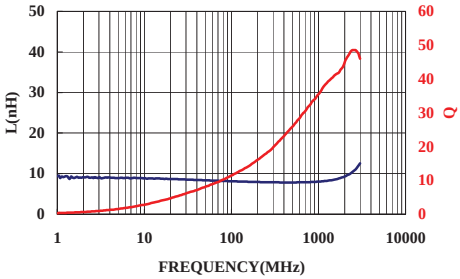

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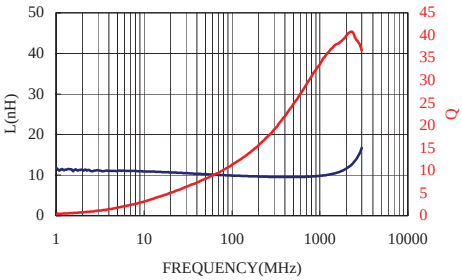

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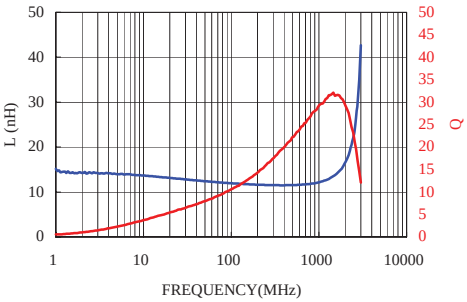

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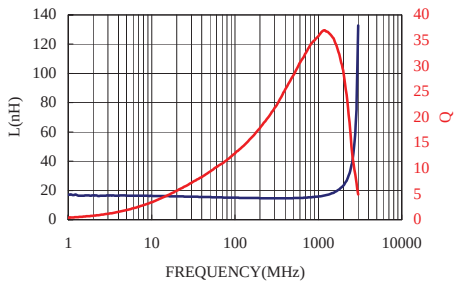

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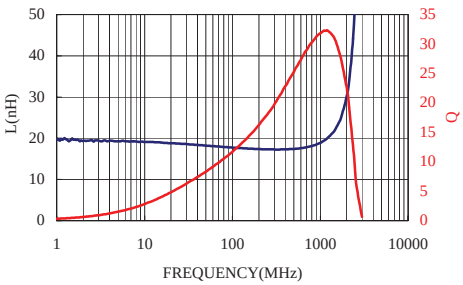

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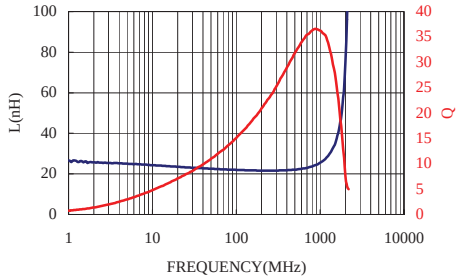

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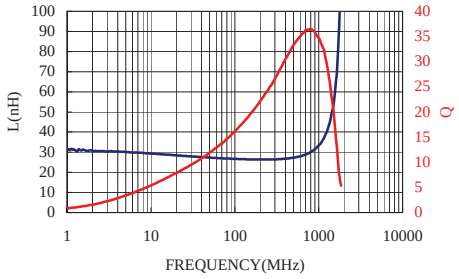

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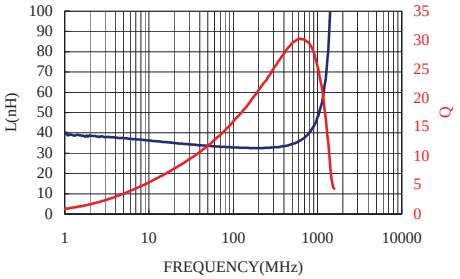

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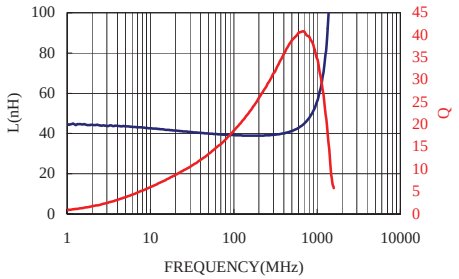

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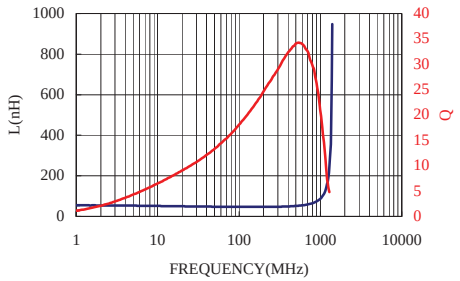

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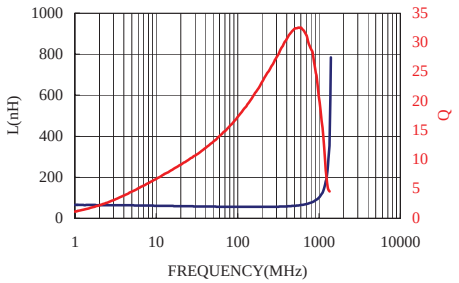

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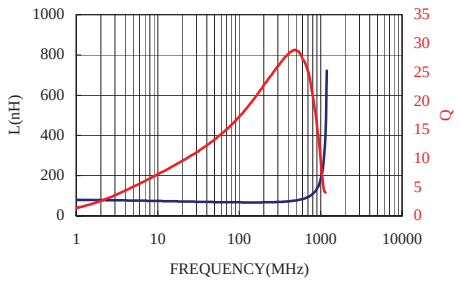

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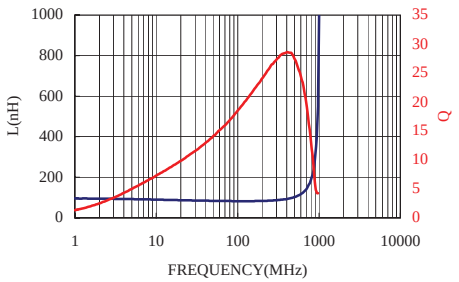

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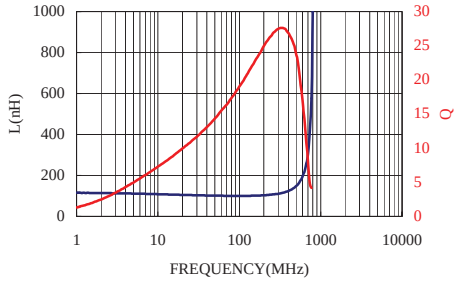

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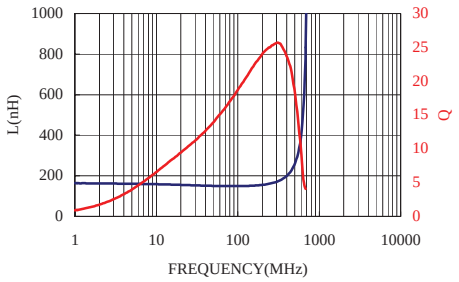

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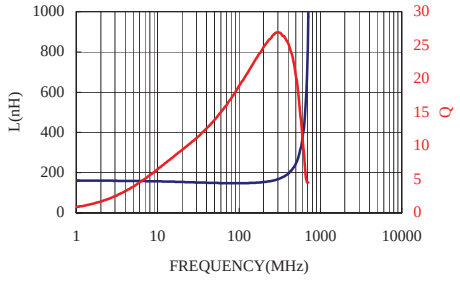

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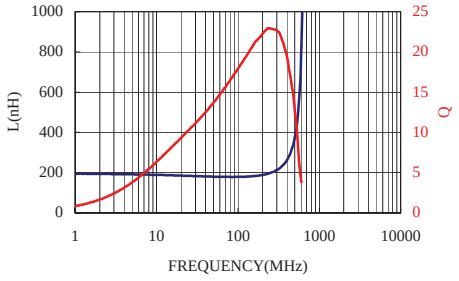

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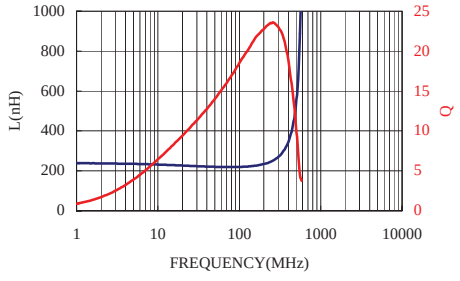

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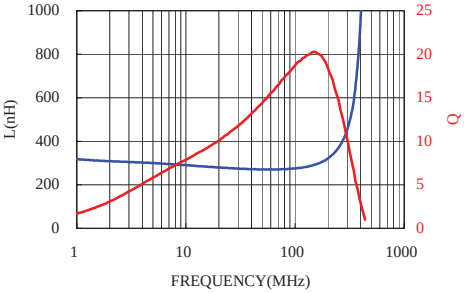

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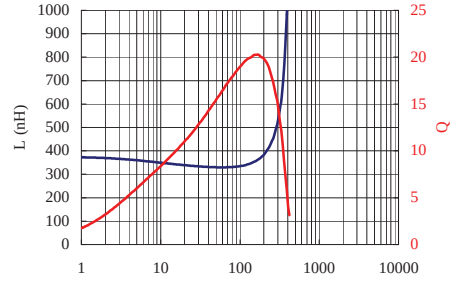

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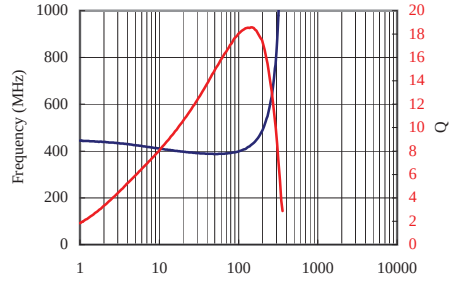


■Electrical Specifications

CL01 Multilayer Chip Inductors Type

Inductance (nH)	Tolerance	Quality Factor /min.	L/Q Freq. (MHz)	Q(Typical) Freq.(MHz)							SRF min. (GHz)	RDC (Ω) max.	IDC (mA) max.
				100	500	800	900	1800	2000	2400			
0.3	±0.3nH	4	100	6	14	19	20	32	35	39	10.0	0.07	250
0.4	±0.3nH	4	100	6	14	19	20	32	35	39	10.0	0.07	250
0.5	±0.3nH	4	100	6	14	19	20	33	36	40	10.0	0.08	250
0.6	±0.3nH	4	100	6	15	19	20	33	36	40	10.0	0.08	250
0.7	±0.3nH	4	100	6	15	20	21	34	37	41	10.0	0.09	250
0.8	±0.3nH	4	100	6	14	19	20	32	35	39	10.0	0.10	250
0.9	±0.3nH	4	100	6	15	20	21	35	37	42	10.0	0.10	250
1.0	±0.3nH	4	100	5	13	17	18	28	30	33	10.0	0.14	250
1.1	±0.3nH	4	100	6	14	18	20	30	32	34	10.0	0.14	250
1.2	±0.3nH	4	100	6	14	18	19	28	30	32	10.0	0.14	250
1.3	±0.3nH	4	100	6	13	17	18	27	28	31	10.0	0.14	250
1.5	±0.3nH	4	100	6	14	18	20	30	32	34	10.0	0.18	230
1.6	±0.3nH	4	100	6	14	18	20	28	30	31	10.0	0.18	230
1.8	±0.3nH	4	100	6	14	18	20	28	30	31	10.0	0.19	200
2.0	±0.3nH	4	100	6	14	18	19	28	29	31	8.8	0.20	200
2.1	±0.3nH	4	100	6	13	17	18	26	28	30	8.8	0.20	200
2.2	±0.3nH	4	100	6	13	17	18	26	28	30	8.8	0.22	200
2.4	±0.3nH	4	100	6	14	18	20	28	29	31	8.3	0.24	200
2.7	±0.3nH	5	100	6	14	18	19	28	29	31	7.7	0.25	200
3.0	±0.3nH	5	100	7	15	19	21	30	31	33	7.2	0.28	180
3.2	±0.3nH	5	100	6	14	19	20	29	30	32	6.7	0.30	180
3.3	±0.3nH	5	100	6	14	19	20	29	30	32	6.7	0.30	180
3.6	±0.3nH	5	100	6	14	18	20	28	29	31	6.4	0.30	170
3.9	±0.3nH	5	100	6	15	19	20	28	29	31	6.0	0.30	170
4.3	±0.3nH	5	100	6	14	18	19	27	28	29	5.7	0.40	150
4.7	±0.3nH	5	100	6	14	19	19	26	27	29	5.3	0.40	150
5.1	±0.3nH	5	100	6	13	17	18	25	25	26	5.0	0.40	150
5.6	±0.3nH	5	100	7	14	18	19	26	27	27	4.2	0.40	150
6.2	±5%	5	100	6	14	18	19	26	26	30	3.8	0.44	150
6.8	±5%	5	100	7	14	18	19	26	26	26	3.5	0.50	150
7.5	±5%	5	100	6	15	18	20	25	25	25	3.3	0.53	150
8.2	±5%	5	100	7	15	18	19	19	24	24	3.2	0.55	150
9.1	±5%	5	100	6	13	16	17	21	20	18	3.0	0.62	150
10	±5%	5	100	6	13	16	17	20	20	18	2.8	0.65	150
12	±5%	5	100	7	13	116	17	18	17	14	2.4	0.70	100
15	±5%	5	100	7	15	18	19	19	17	11	2.2	0.80	100
18	±5%	5	100	7	13	16	16	14	11	5	2.2	0.90	100
22	±5%	5	100	7	13	16	16	12	8	-	1.8	1.20	100
27	±5%	4	100	6	13	15	15	6	-	-	1.8	1.80	50
33	±5%	4	100	7	14	16	17	6	-	-	1.7	2.10	50
39	±5%	4	100	6	12	13	13	-	-	-	1.5	2.40	50
47	±5%	4	100	6	11	12	11	-	-	-	1.3	2.80	100
56	±5%	4	100	6	11	11	10	-	-	-	1.1	3.00	80
68	±5%	4	100	6	11	11	10	-	-	-	1.1	2.66	80
82	±5%	4	100	6	11	10	8	-	-	-	1.0	3.37	70
100	±5%	4	100	6	10	9	6	-	-	-	0.9	3.74	60

■Operating temperature range: -55~+125℃

■Electrical Specifications

CL02 Multilayer Chip Inductors Type

Inductance (nH)	Tolerance	Quality Factor /min.	L/Q Freq. (MHz)	Q(Typical) Freq.(MHz)							SRF min. (GHz)	RDC (Ω) max.	IDC (mA) max.
				100	500	800	900	1800	2000	2400			
0.6	±0.3nH	8	100	12	40	60	65	100	120	140	10.0	0.08	300
1.0	±0.3nH	8	100	12	29	38	41	63	71	75	10.0	0.08	300
1.1	±0.3nH	8	100	11	29	37	40	60	67	72	10.0	0.08	300
1.2	±0.3nH	8	100	11	29	38	41	61	68	73	10.0	0.09	300
1.3	±0.3nH	8	100	11	30	38	41	61	67	72	10.0	0.09	300
1.5	±0.3nH	8	100	11	27	35	38	57	63	68	10.0	0.10	300
1.6	±0.3nH	8	100	11	28	35	38	57	64	68	10.0	0.10	300
1.8	±0.3nH	8	100	11	26	33	36	53	58	61	6.00	0.12	300
2.0	±0.3nH	8	100	10	23	29	31	45	49	52	6.00	0.12	300
2.2	±0.3nH	8	100	10	24	31	33	48	52	55	6.00	0.13	300
2.4	±0.3nH	8	100	10	25	31	34	49	53	57	6.00	0.13	300
2.7	±0.3nH	8	100	11	27	35	37	54	58	60	6.00	0.16	300
3.0	±0.3nH	8	100	10	25	32	34	49	53	55	6.00	0.16	300
3.3	±0.3nH, ±10%	8	100	11	25	32	35	50	54	56	6.00	0.16	300
3.6	±0.3nH, ±10%	8	100	10	24	31	33	46	49	49	5.00	0.20	300
3.9	±0.3nH, ±10%	8	100	11	24	30	33	46	49	51	4.00	0.20	300
4.3	±0.3nH, ±10%	8	100	11	26	33	35	50	53	54	4.00	0.20	300
4.7	±0.3nH, ±10%	8	100	11	25	32	35	49	51	53	4.00	0.20	300
5.1	±0.3nH, ±10%	8	100	11	25	32	35	46	48	49	4.00	0.23	300
5.6	±0.3nH, ±10%	8	100	11	25	32	35	46	48	49	4.00	0.23	300
6.2	±0.3nH, ±10%	8	100	11	26	32	34	46	48	49	3.90	0.25	300
6.8	±5%, ±10%	8	100	11	26	32	35	46	48	48	3.90	0.25	300
7.5	±5%, ±10%	8	100	11	26	32	35	46	48	48	3.70	0.28	300
8.2	±5%, ±10%	8	100	11	26	32	34	42	42	40	3.50	0.28	300
9.1	±5%, ±10%	8	100	11	25	31	34	42	42	40	3.40	0.30	300
10	±5%, ±10%	8	100	11	23	29	31	37	37	34	3.20	0.31	300
12	±5%, ±10%	8	100	11	24	31	33	37	36	30	2.60	0.45	300
15	±5%, ±10%	8	100	11	23	30	32	35	33	28	2.30	0.55	300
18	±5%, ±10%	8	100	11	23	28	29	30	28	22	2.00	0.65	300
22	±5%, ±10%	8	100	11	22	27	28	22	18	6	1.60	0.70	300
27	±5%, ±10%	8	100	11	22	26	27	16	11	4	1.40	0.80	300
33	±5%, ±10%	8	100	11	22	25	26	12	5	-	1.20	0.90	200
39	±5%, ±10%	8	100	11	20	22	22	-	-	-	1.10	1.00	200
47	±5%, ±10%	8	100	11	20	21	21	-	-	-	0.90	1.10	200
56	±5%, ±10%	8	100	11	19	19	18	-	-	-	0.75	1.10	200
68	±5%, ±10%	8	100	11	18	17	15	-	-	-	0.75	1.20	180
82	±5%, ±10%	8	100	11	18	15	12	-	-	-	0.60	1.30	150
100	±5%, ±10%	8	100	11	17	12	9	-	-	-	0.60	1.60	150
120	±5%, ±10%	8	100	11	16	7	-	-	-	-	0.60	1.60	150
150	±5%, ±10%	8	100	11	14	-	-	-	-	-	0.55	2.40	140
180	±5%, ±10%	8	100	12	-	-	-	-	-	-	0.50	3.70	130
220	±5%, ±10%	8	100	12	-	-	-	-	-	-	0.45	4.20	120
270	±5%, ±10%	8	100	12	-	-	-	-	-	-	0.40	4.80	110

■Operating temperature range: -55~+125℃

■Electrical Specifications

CL03 Multilayer Chip Inductors Type

Inductance (nH)	Tolerance	Quality Factor /min.	L/Q Freq. (MHz)	Q (Typical) Freq.(MHz)							SRF (GHz) Min.	RDC (Ω) Max.	IDC (mA) Max.
				100	500	800	900	1800	2000	2400			
1.0	±0.3nH	8	100	14	40	53	60	93	32	174	10.0	0.05	1000
1.2	±0.3nH	8	100	15	38	49	54	84	32	143	10.0	0.05	1000
1.5	±0.3nH	8	100	12	31	39	43	62	33	88	10.0	0.10	1000
1.8	±0.3nH	8	100	13	34	42	46	68	37	97	10.0	0.10	1000
2.2	±0.3nH	8	100	14	36	46	50	73	42	101	6.00	0.10	1000
2.7	±0.3nH	10	100	14	36	47	45	72	45	94	6.00	0.13	1000
3.3	±0.3nH, ±10%	10	100	14	37	47	50	67	47	77	6.00	0.13	1000
3.9	±0.3nH, ±10%	10	100	15	36	46	49	66	48	81	6.00	0.15	1000
4.7	±0.3nH, ±10%	10	100	15	39	50	53	70	53	80	4.00	0.20	1000
5.6	±0.3nH, ±10%	10	100	15	39	50	54	67	52	69	4.00	0.23	600
6.8	±5%, ±10%	10	100	15	38	49	52	66	53	66	4.00	0.25	600
8.2	±5%, ±10%	10	100	16	37	48	50	59	49	54	3.50	0.28	600
10	±5%, ±10%	12	100	16	39	49	52	60	50	52	3.20	0.30	600
12	±5%, ±10%	12	100	16	36	46	48	47	39	31	2.60	0.35	600
15	±5%, ±10%	12	100	17	40	50	52	49	41	31	2.30	0.40	600
18	±5%, ±10%	12	100	17	39	48	50	43	35	21	2.00	0.45	600
22	±5%, ±10%	12	100	17	39	46	47	29	19	1	1.60	0.50	600
27	±5%, ±10%	12	100	18	39	45	46	19	8	-	1.40	0.55	600
33	±5%, ±10%	12	100	18	39	43	43	-	-	-	1.20	0.60	600
39	±5%, ±10%	12	100	19	36	39	37	-	-	-	1.10	0.65	500
47	±5%, ±10%	12	100	17	34	36	34	-	-	-	0.90	0.70	500
56	±5%, ±10%	12	100	19	35	34	31	-	-	-	0.90	0.75	500
68	±5%, ±10%	12	100	18	33	29	25	-	-	-	0.70	0.85	400
82	±5%, ±10%	12	100	19	32	25	20	-	-	-	0.60	0.95	300
100	±5%, ±10%	12	100	18	30	19	12	-	-	-	0.60	1.00	300
120	±5%, ±10%	8	50	19	28	14	-	-	-	-	0.50	1.20	300
150	±5%, ±10%	8	50	18	21	-	-	-	-	-	0.50	1.20	300
180	±5%, ±10%	8	50	17	17	-	-	-	-	-	0.40	1.30	300
220	±5%, ±10%	8	50	16	13	-	-	-	-	-	0.40	1.50	300
240	±5%, ±10%	8	50	16	-	-	-	-	-	-	0.40	1.70	200
270	±5%, ±10%	8	50	16	-	-	-	-	-	-	0.40	1.90	150
330	±5%, ±10%	8	50	14	-	-	-	-	-	-	0.35	2.10	150
390	±5%, ±10%	8	50	14	-	-	-	-	-	-	0.35	2.30	150
470	±5%, ±10%	8	50	13	-	-	-	-	-	-	0.30	2.60	150

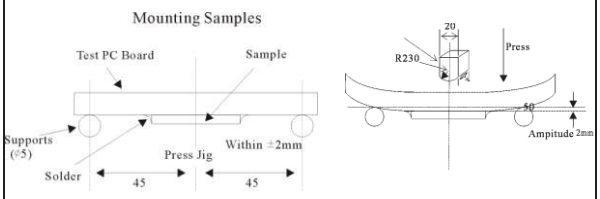
■Operating temperature range: -40~+85℃

■Environmental Characteristics

Electrical Performance Test

Item	Requirement	Test Condition
Inductance	In Within specified tolerance	Temperature: 25±1°C Relative Humidity: 45 to 85%RH Atmospheric Pressure: 86 to 106kpa Measuring equipment and fixture: 0201: HP4291B+Agilent16196C 0402: HP4291B+Agilent16193A 0603: HP4291B+Agilent16192A
Q Value	In accordance with electrical specification	Temperature: 25±1°C Relative Humidity: 45 to 85%RH Atmospheric Pressure: 86 to 106kpa
DC Resistance	In accordance with electrical specification	Temperature: 25±1°C Relative Humidity: 45 to 85%RH Atmospheric Pressure: 86 to 106kpa Measuring equipment: HP 4338
Temperature Characteristics	Within specified tolerance	Temperature range: -30 to+ 85°C Reference temperature: 25°C

Mechanical Characteristies Test

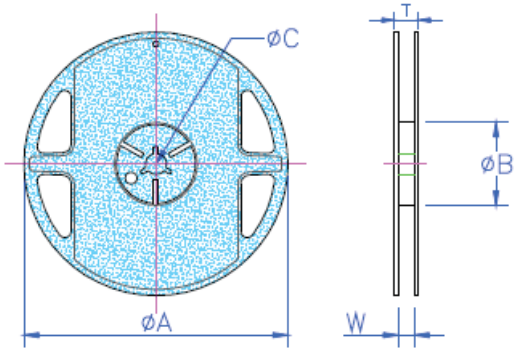
Item	Requirement	Test Condition
Bending Strength	No mechanical damage shall be observed	Solder the chip to test jig then apply a force in the direction shown in below. The soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock. 
Solderability	More than 75% of the terminal electrode part shall be covered with fresh solder	Immerse a test sample into a methanol solution containing rosin, preheat it at 150 to 180°C for 3 to 5 seconds and immerse into molten solder of 245±5°C for 5±0.5 seconds.
Resistance to Soldering Heat	No visible damage	Immerse a test sample into a methanol solution containing resin, preheat it at 150 to 180°C for 2 to 3 minutes and immerse into molten solder of 260±5°C for 10±0.5 seconds so that both terminal electrodes are completely submerged.
Appearance	In accordance with specification	Inductors shall be visually inspected for visible evidence of defect
Dimension	In accordance with dimension specification	Dimension shall be measured with caliper or micrometer

Climatic Test

Item	Requirements	Test Condition
Thermal Shock	No visible damage Inductance variation within 10% Q variation within 20%	Solder a test sample to printed circuit board, and conduct 100 cycles of test under the conditions shown as below. Cycle: 100℃/1hr Within 2min -40℃/1hr
High Humidity State Life Test	No visible damage. Inductance variation within 10%. Q variation within 20%.	Keep a test sample in an atmosphere with a temperature of 70±2℃, 90~95%RH for 500±12 hours. After the test, keep the test sample at a normal temperature for 1 to 2 hours, and then carry out measurement.
High Humidity Load Life Test	No visible damage. Inductance variation within 10%. Q variation within 20%.	Solder a test sample to printed circuit board then keep the test sample in an atmosphere with a temperature of 70±2℃, 90~95%RH for 500±12 hours while supplying the rated current. After the test, keep the test sample at a normal temperature for 1 to 2 hours, and then carry out measurement.
High Temperature State Life Test	No visible damage. Inductance variation within 10%. Q variation within 20%.	Keep a test sample in an atmosphere with a temperature of 100±2℃ for 500±12 hours. After the test, keep the test sample at a normal temperature for 1 to 2 hours, and then carry out measurement.
High Temperature Load	No visible damage. Inductance variation within 10%. Q variation within 20%.	Solder a test sample to printed circuit board then keep the test sample in an atmosphere with a temperature of 100±2℃ for 500±12 hours while supplying the rated current. After the test, keep the test sample at a normal temperature for 1 to 2 hours, and then carry out measurement.

■Packaging Specifications

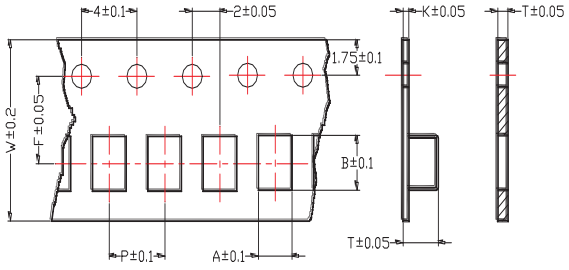
Reel Dimensions



Unit: mm

Type	A	B	C	W	T	Quantity (EA)
CL01	178±1	60.0±0.5	13.0±0.20	9.00±0.5	12.0±0.15	15,000
CL02	178±1	60.0±0.5	13.0±0.20	9.00±0.5	12.0±0.15	10,000
CL03	178±1	60.0±0.5	13.0±0.20	9.00±0.5	12.0±0.15	4,000

Tape Specifications



Unit: mm

Type	A	B	T	W	P	F	K	Tape
CL01	0.38	0.68	0.42	8	2	3.5	-	B
CL02	0.65	1.12	0.60	8	2	3.5	-	B
CL03	1.10	1.80	0.95	8	4	3.5	-	B

Type A ***Type B***

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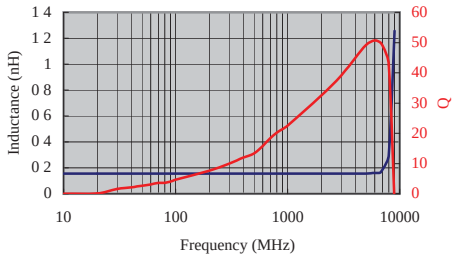

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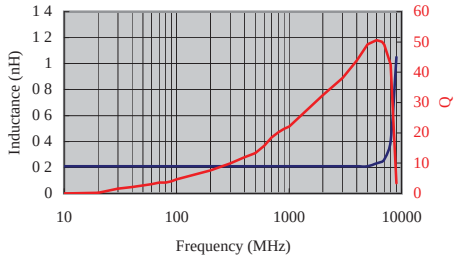

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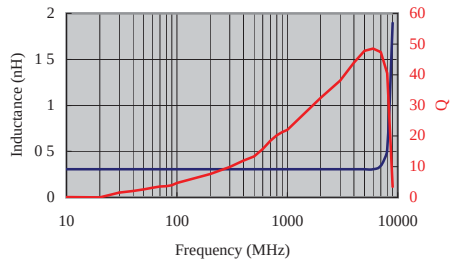

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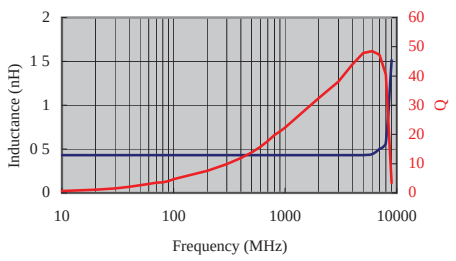

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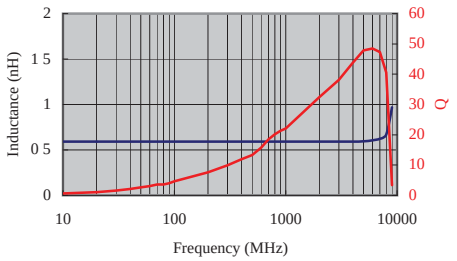

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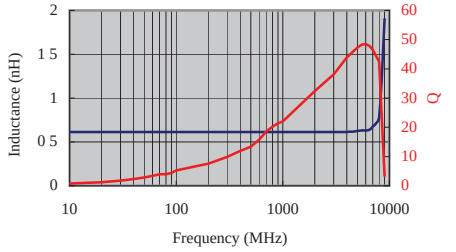

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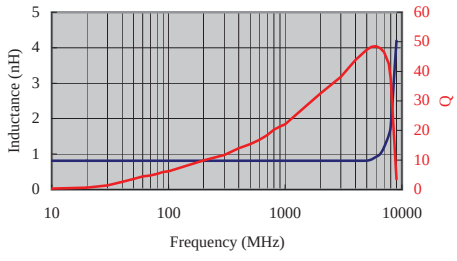

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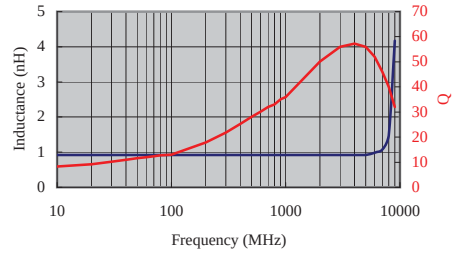

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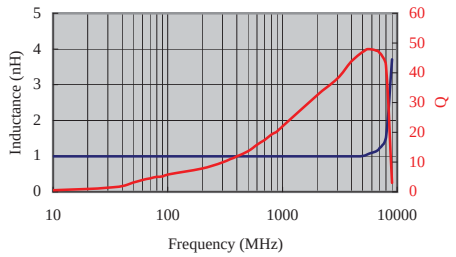

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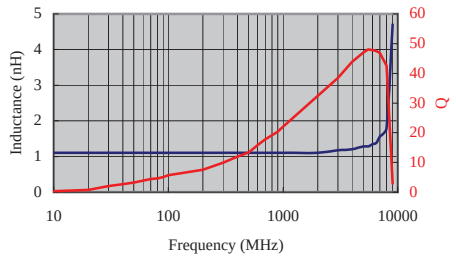

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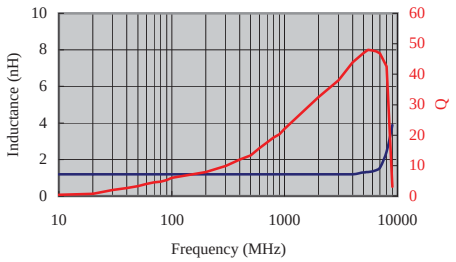

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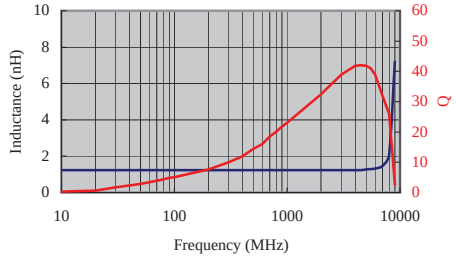

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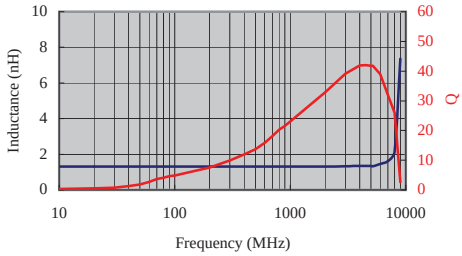

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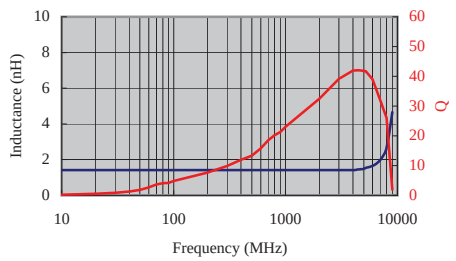

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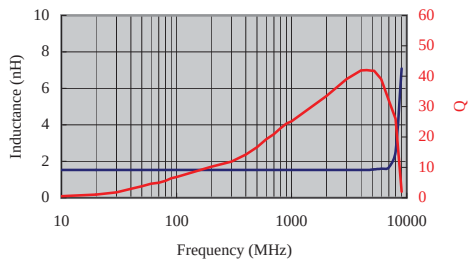

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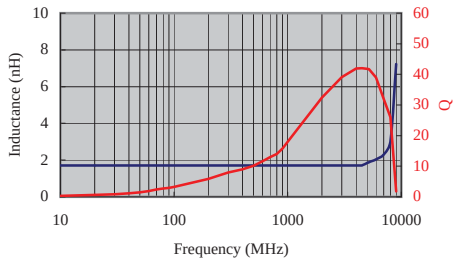

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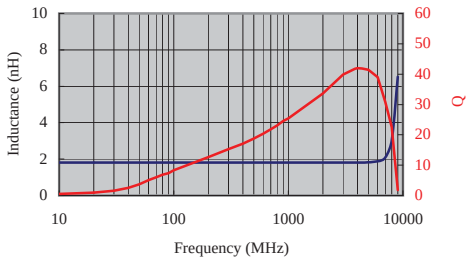

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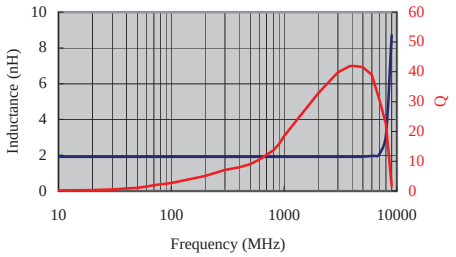

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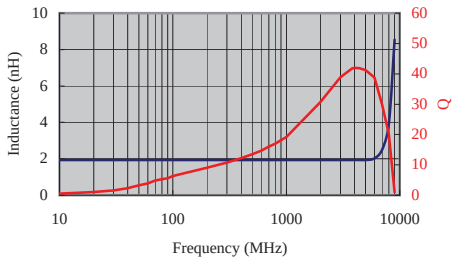

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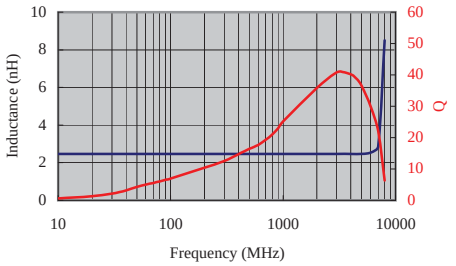

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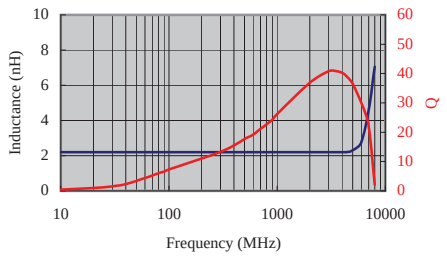

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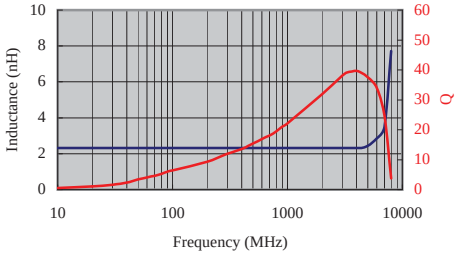

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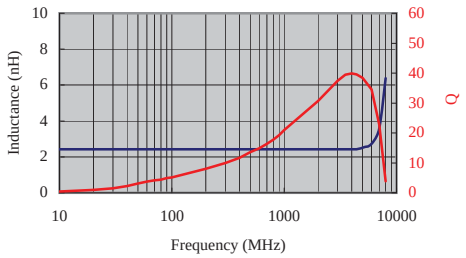

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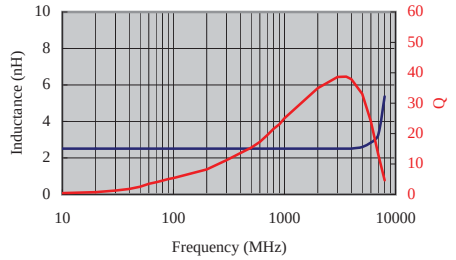

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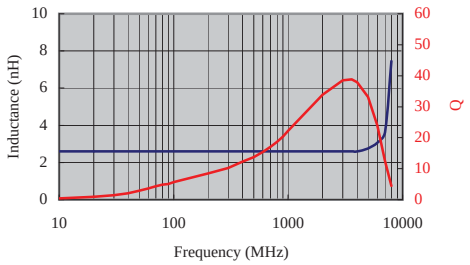

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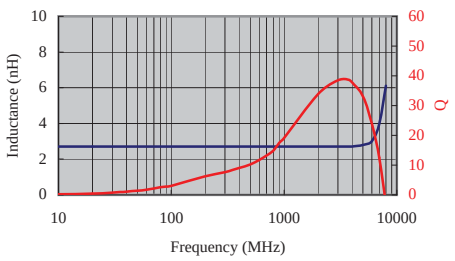

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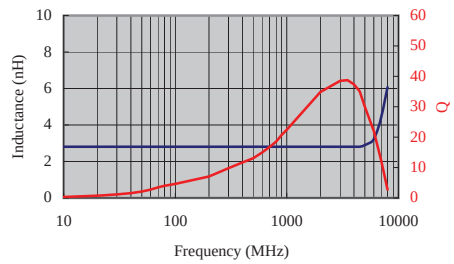

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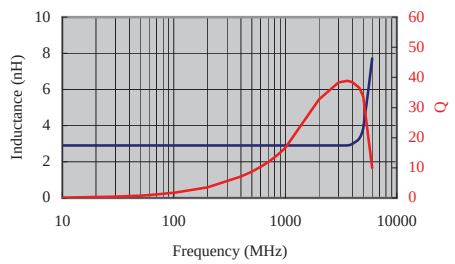

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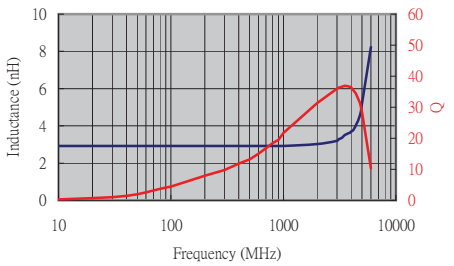

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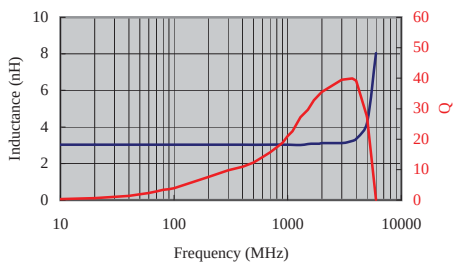

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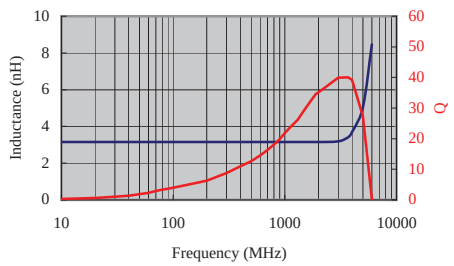

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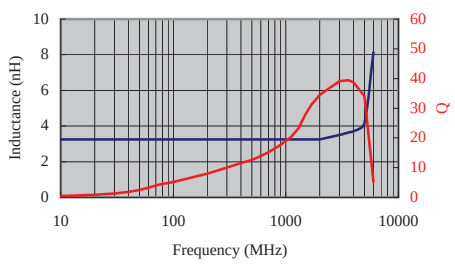

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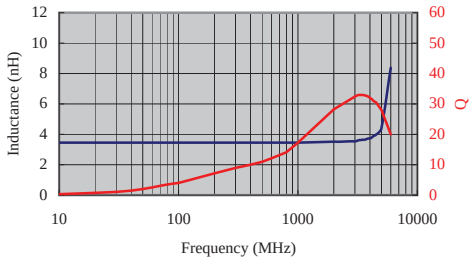

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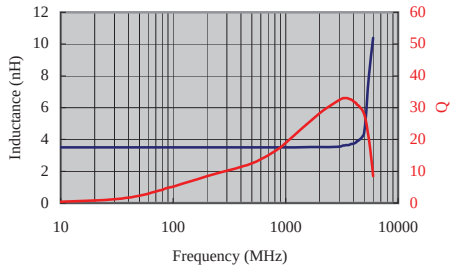

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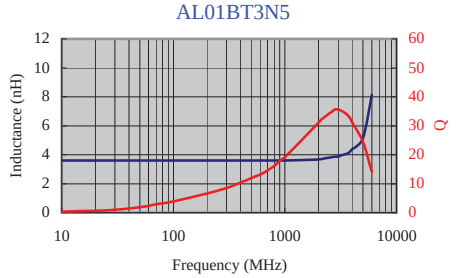

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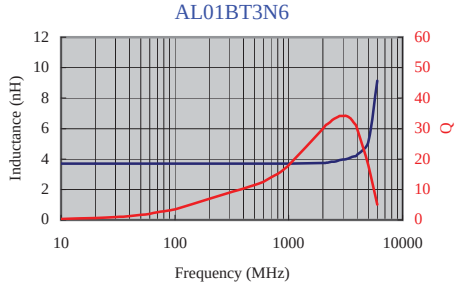

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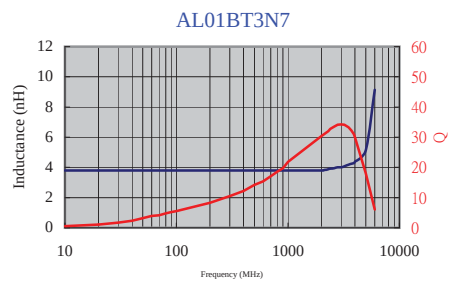

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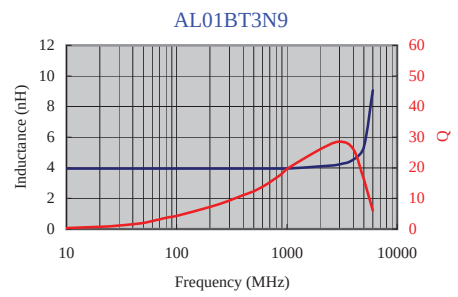

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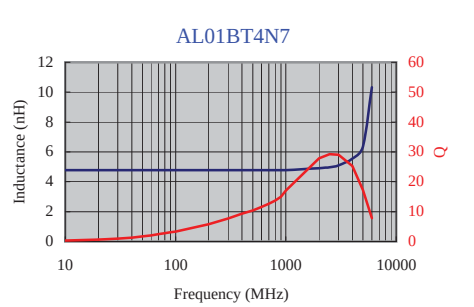

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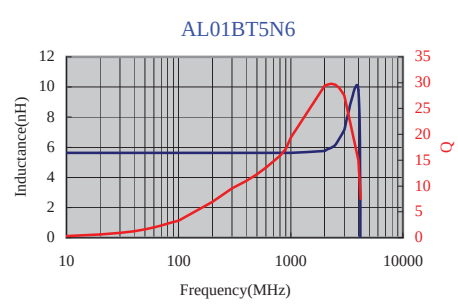

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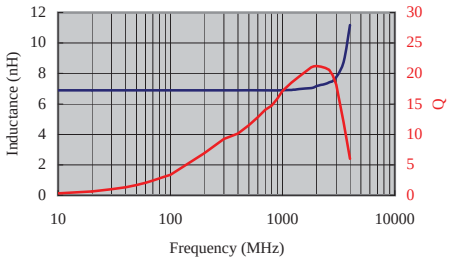

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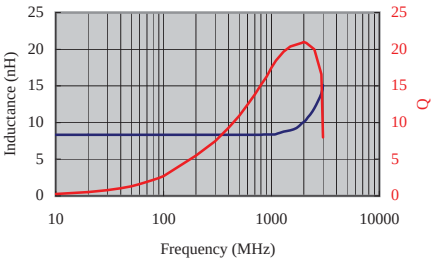

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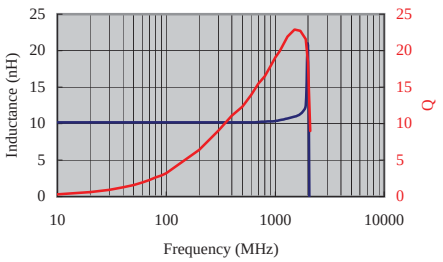

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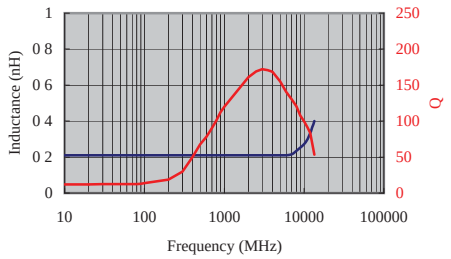

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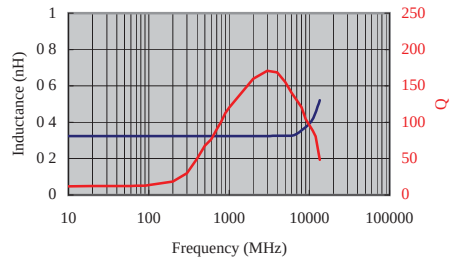

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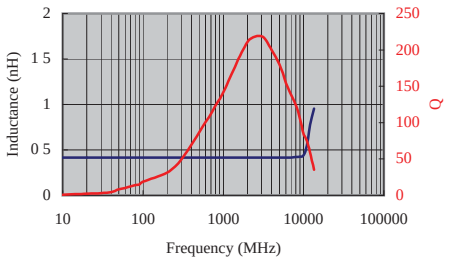

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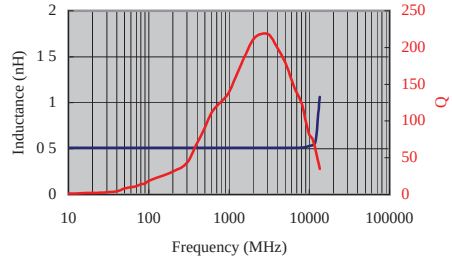

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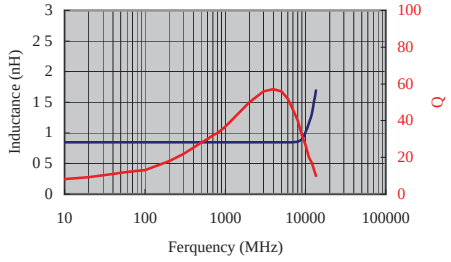

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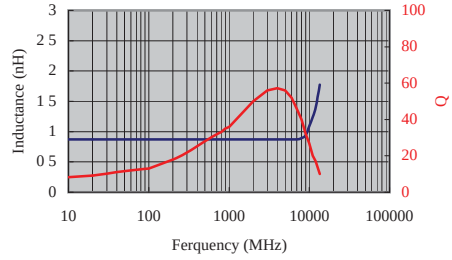

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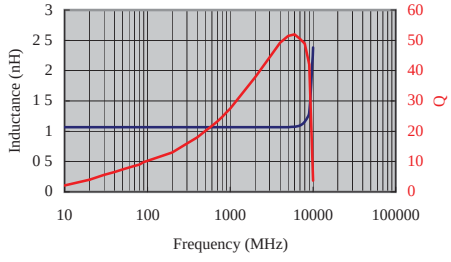

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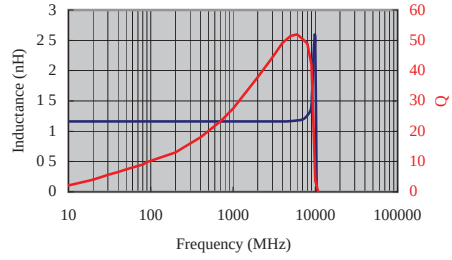

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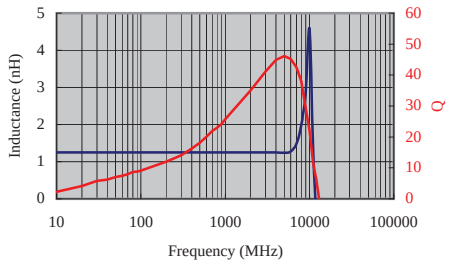

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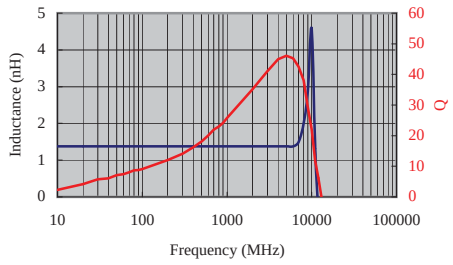

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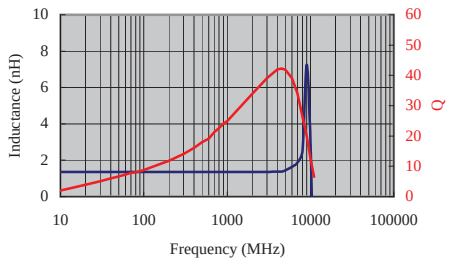

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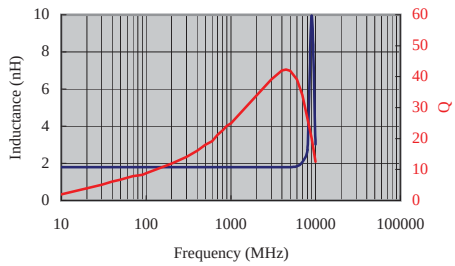

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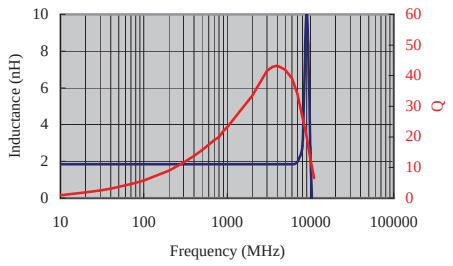

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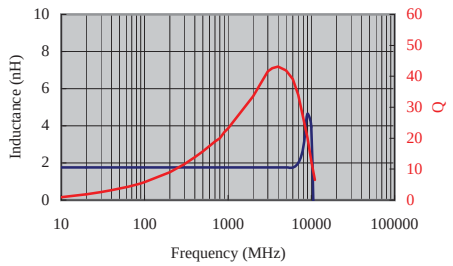

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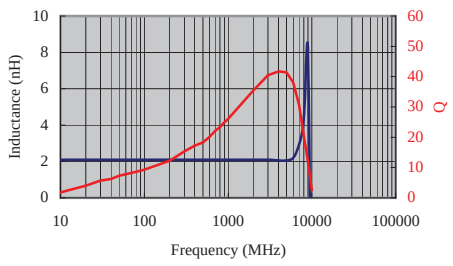

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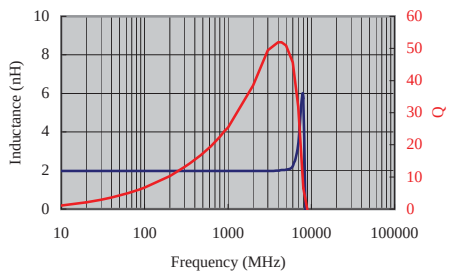

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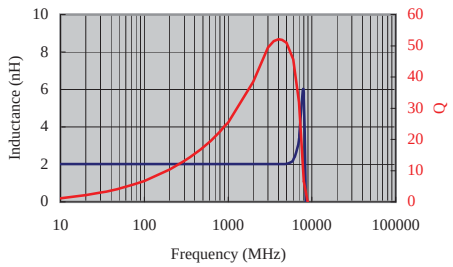

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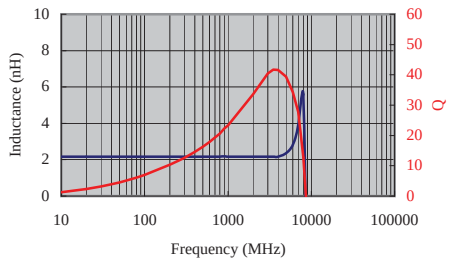

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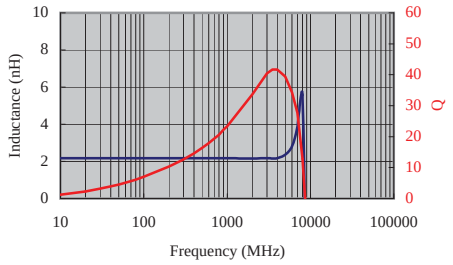

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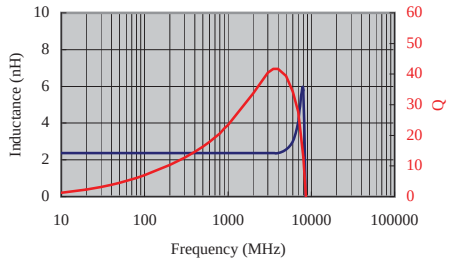

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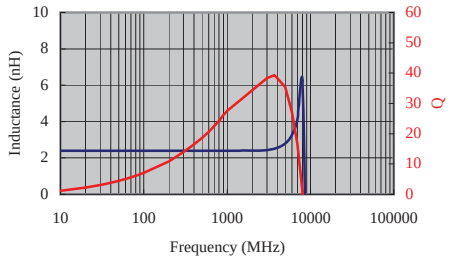

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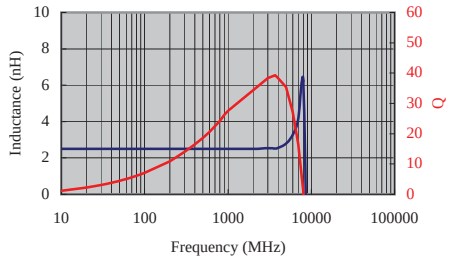

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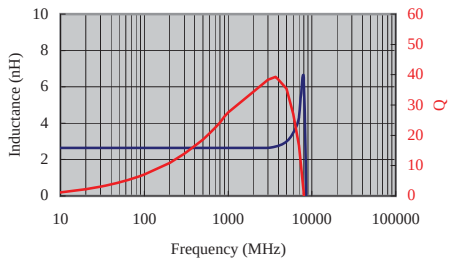

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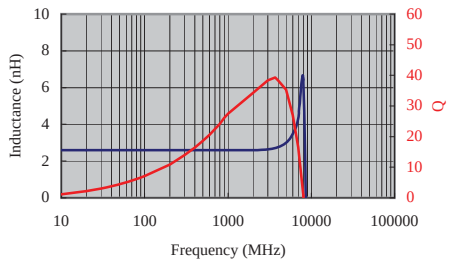

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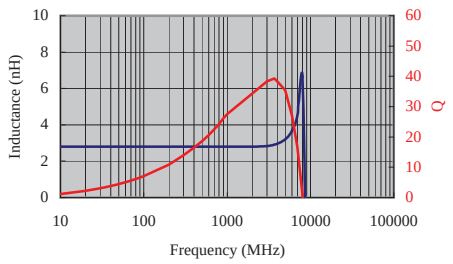

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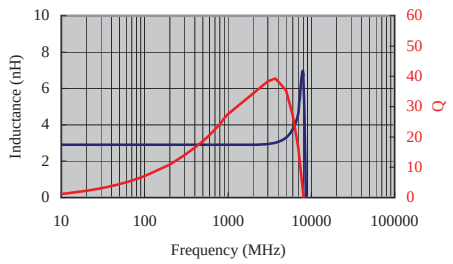

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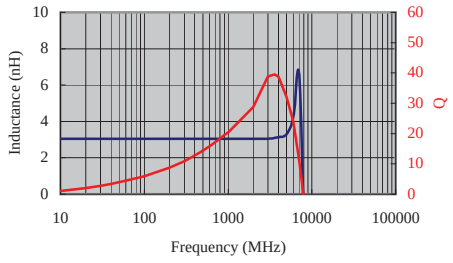

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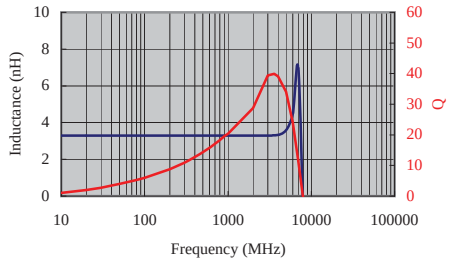

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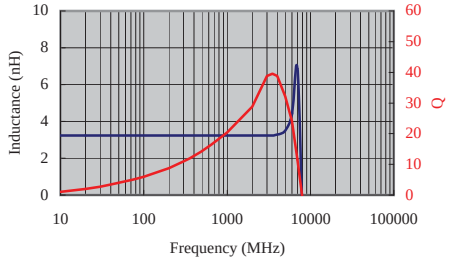

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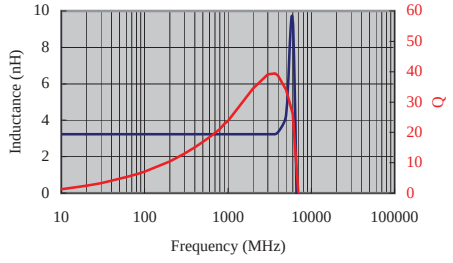

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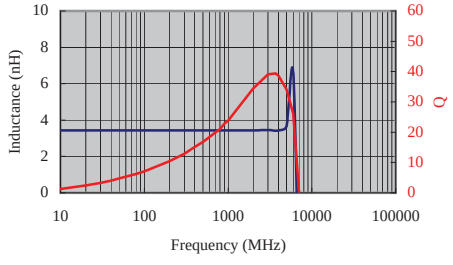

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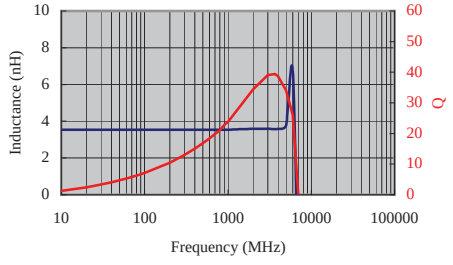

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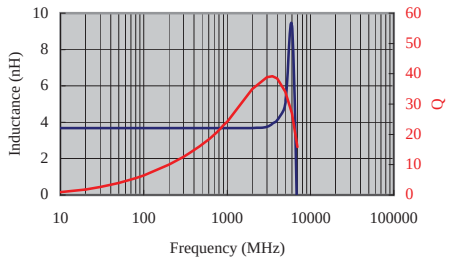

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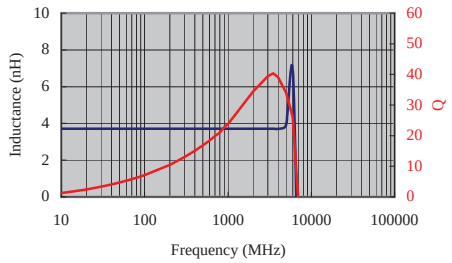

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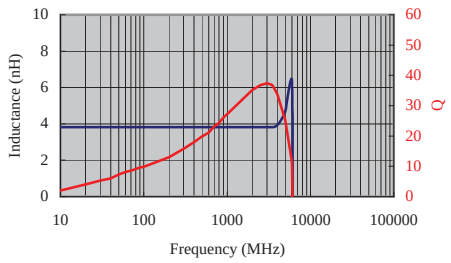

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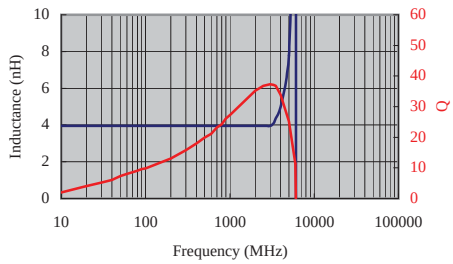

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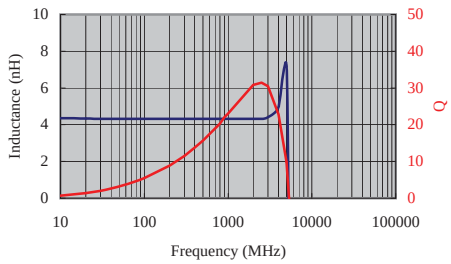

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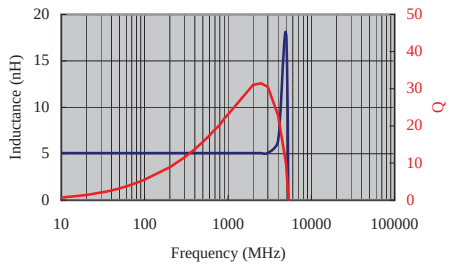

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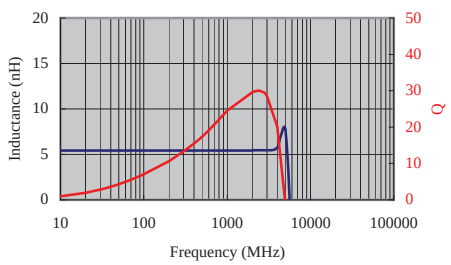

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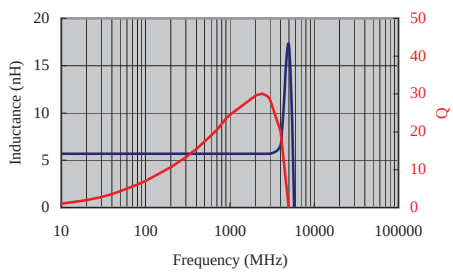

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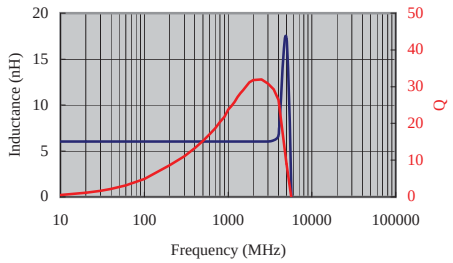

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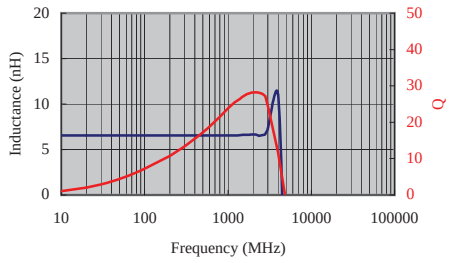

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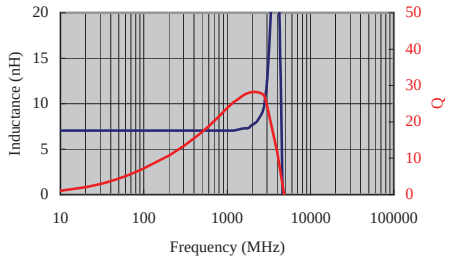

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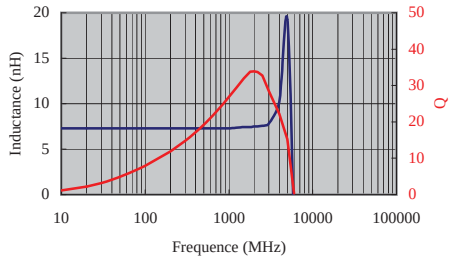

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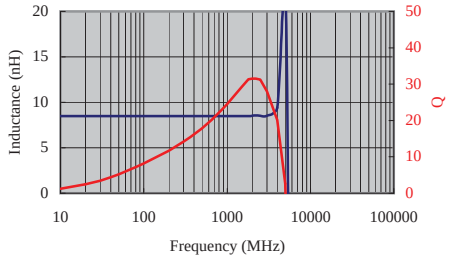

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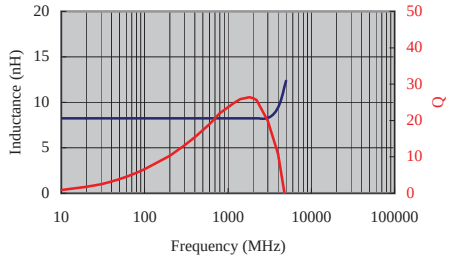

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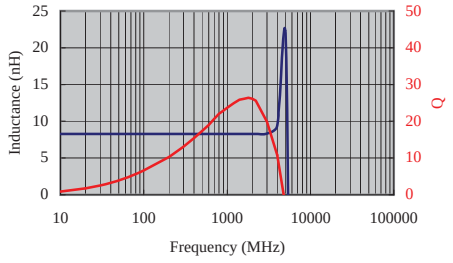

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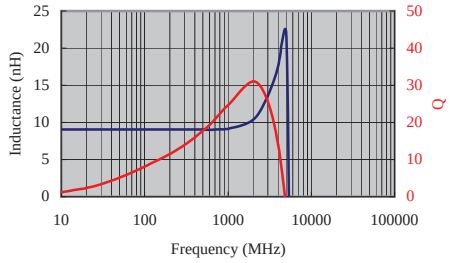

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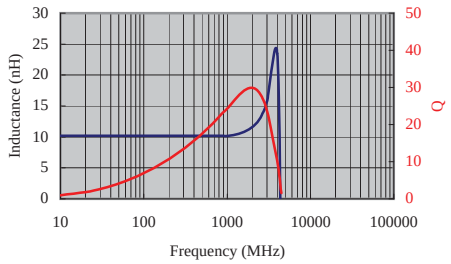

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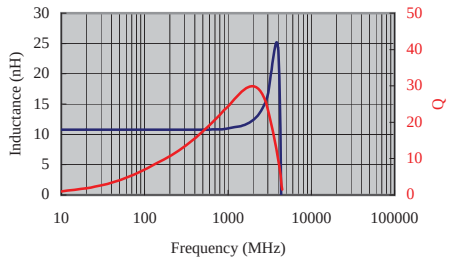

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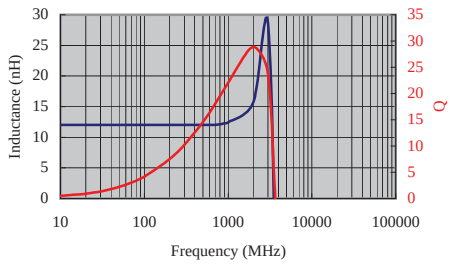

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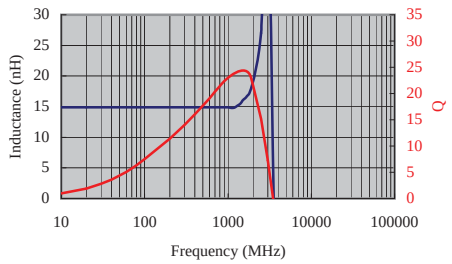

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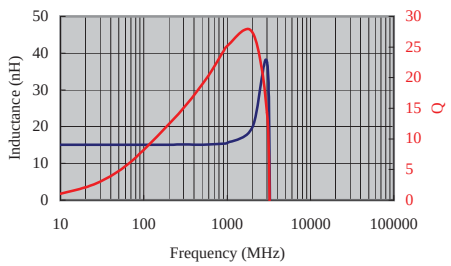

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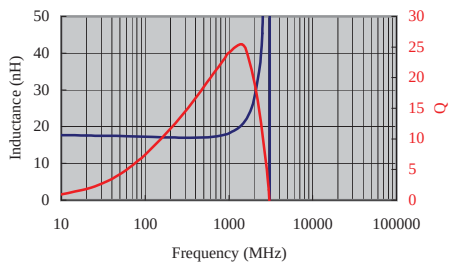

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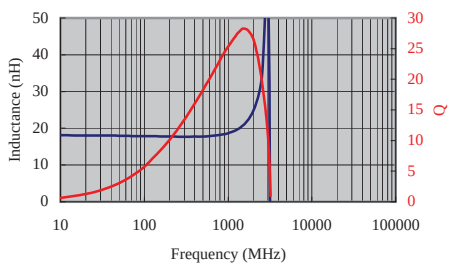

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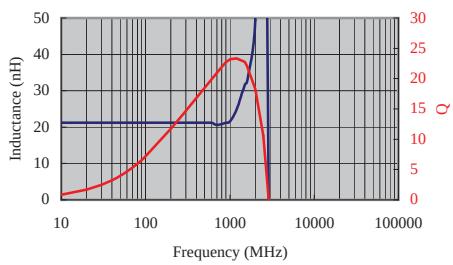

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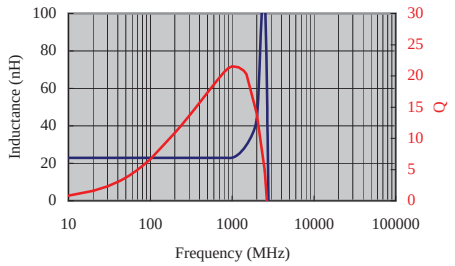

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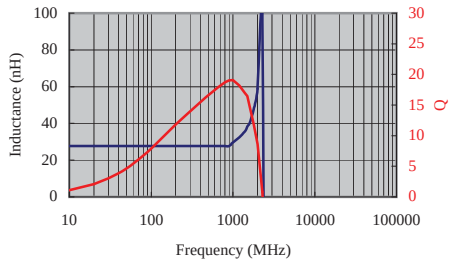

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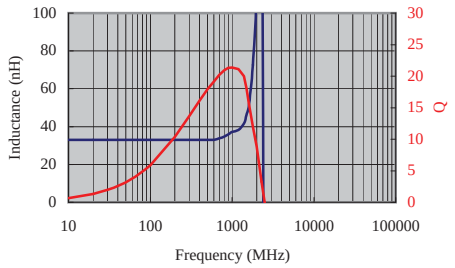

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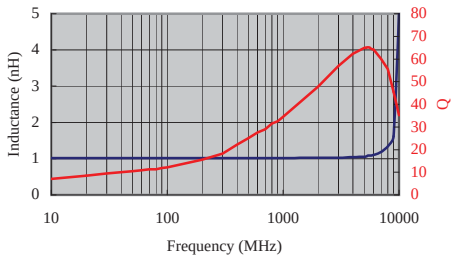

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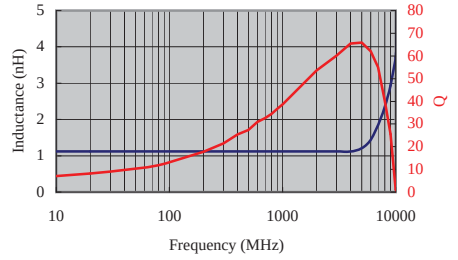

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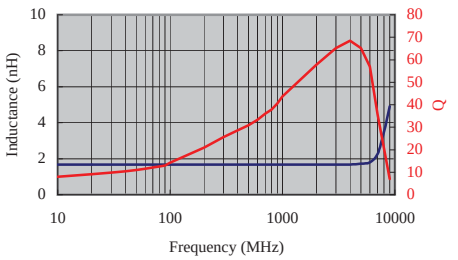

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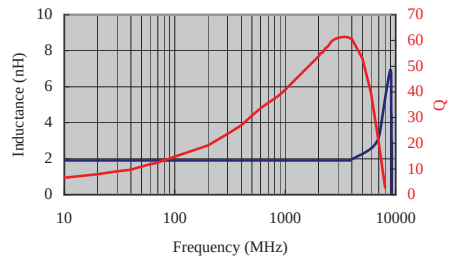

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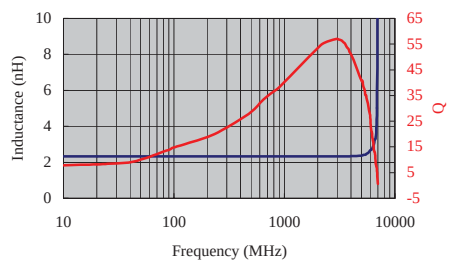

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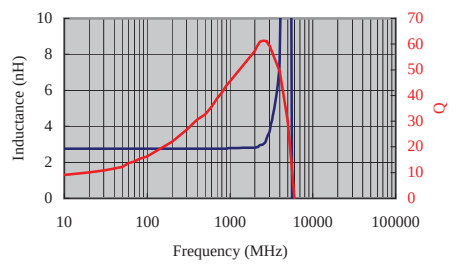

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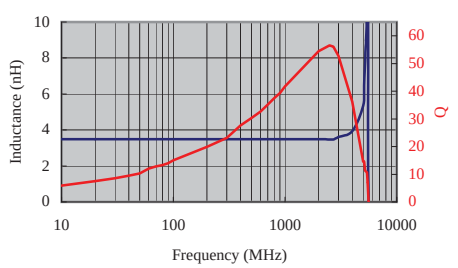

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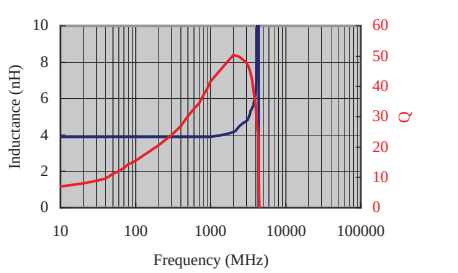

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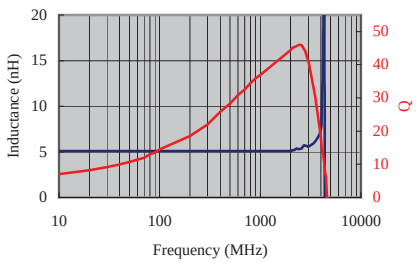

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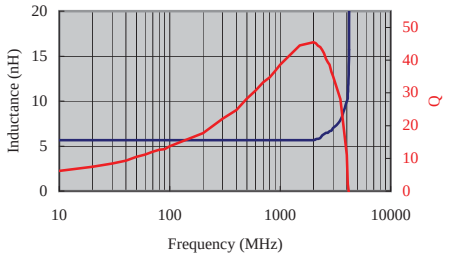

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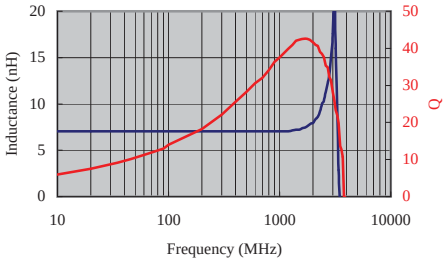

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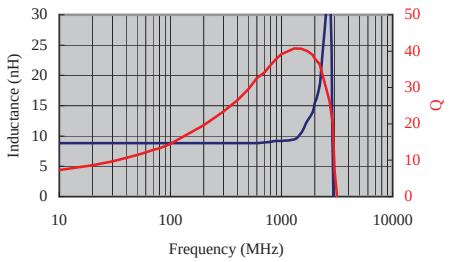

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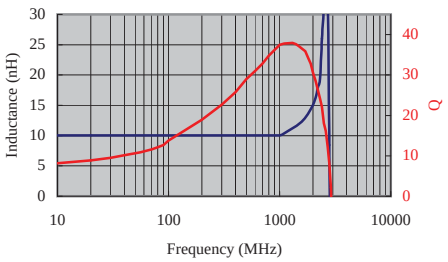

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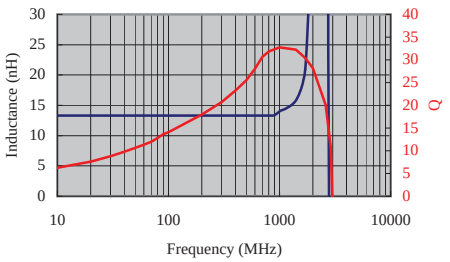

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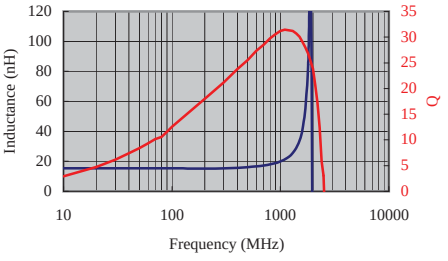

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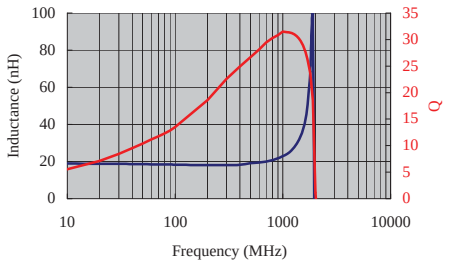

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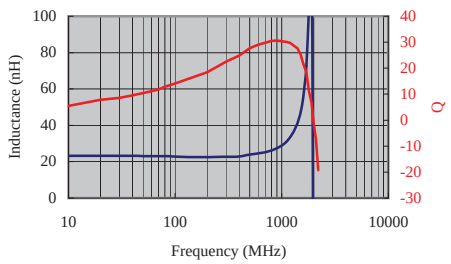

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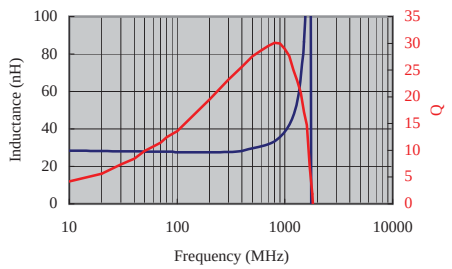

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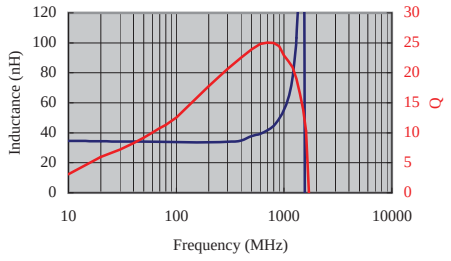

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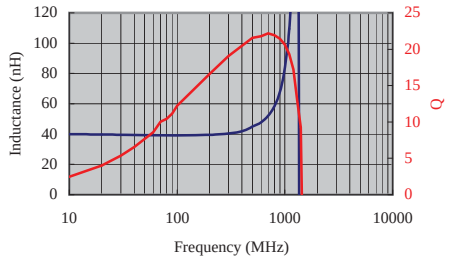

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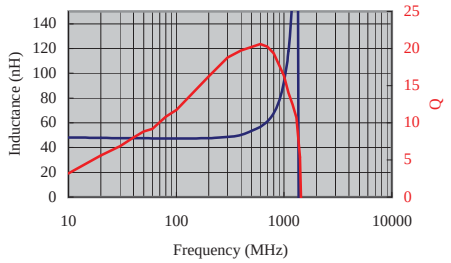

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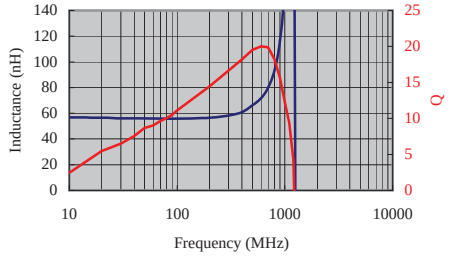

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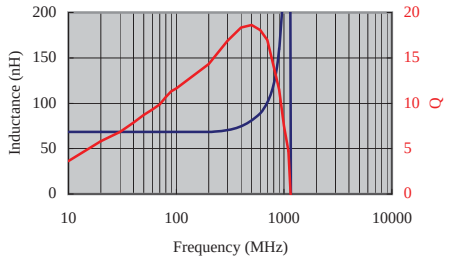

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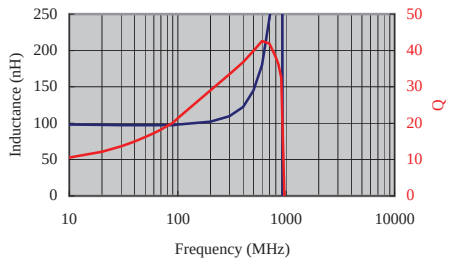


■Standard Electrical Specifications

AL01 Chip Inductors / Standard Type

Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
0.1	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.20	400
0.2	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.20	400
0.3	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.20	400
0.4	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.25	350
0.5	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.25	350
0.6	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.25	350
0.7	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.30	300
0.8	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.30	300
0.9	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.30	300
1.0	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.30	300
1.1	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.35	300
1.2	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.35	300
1.3	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.45	250
1.4	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.45	250
1.5	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.45	250
1.6	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.55	200
1.7	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.55	200
1.8	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.55	200
1.9	±0.1, 0.2, 0.3nH	8 / 500MHz	9	0.55	200
2.0	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.70	200
2.1	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.70	200
2.2	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.70	200
2.3	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.80	150
2.4	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.80	150
2.5	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.80	150
2.6	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.80	150
2.7	±0.1, 0.2, 0.3nH	8 / 500MHz	8	0.80	150
2.8	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
2.9	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
3.0	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
3.1	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
3.2	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
3.3	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.00	150
3.4	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
3.5	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
3.6	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
3.7	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
3.8	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
3.9	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
4.0	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.20	150
4.4	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.30	140
4.7	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.40	130
4.9	±0.1, 0.2, 0.3nH	8 / 500MHz	6	1.60	130
5.6	±2, ±5%	8 / 500MHz	4	1.80	130
6.1	±2, ±5%	8 / 500MHz	4	2.00	120
6.8	±2, ±5%	8 / 500MHz	4	2.30	110
7.4	±2, ±5%	8 / 500MHz	4	2.80	110
8.2	±2, ±5%	8 / 500MHz	3	3.00	110
9.1	±2, ±5%	8 / 500MHz	3	3.25	100
9.2	±2, ±5%	8 / 500MHz	3	3.25	100
10	±2, ±5%	8 / 500MHz	2	3.50	80

AL01-01 Chip Inductors / High Current Type

Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
0.1	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.05	600
0.2	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.05	600
0.3	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.05	600
0.4	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.05	600
0.5	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.10	600
0.6	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.10	600
0.7	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.10	600
0.8	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.10	600
0.9	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.10	600
1.0	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.15	600
1.1	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.15	600
1.2	±0.1, 0.2, 0.3nH	10/ 500MHz	6	0.15	600
1.3	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.20	600
1.4	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.20	600
1.5	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.25	600
1.6	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.25	600
1.7	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.30	500
1.8	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.30	500
1.9	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.30	500
2.0	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.30	500
2.1	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.30	500
2.2	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	500
2.3	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	500
2.4	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	450
2.5	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	450
2.6	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	450
2.7	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.35	450
2.8	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	450
2.9	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	450
3.0	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	400
3.1	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	400
3.2	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	400
3.3	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.50	400
3.4	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
3.5	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
3.6	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
3.7	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
3.8	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
3.9	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350
4.0	±0.1, 0.2, 0.3nH	10 / 500MHz	6	0.80	350

AL01-02 Chip Inductors / High Q Type

Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
0.1	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.05	850
0.2	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.05	800
0.3	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.05	800
0.4	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.05	750
0.5	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.10	750
0.6	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.10	750
0.7	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.10	600
0.8	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.10	600
0.9	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.10	600
1.0	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.1	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.2	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.3	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.4	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.5	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.6	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.15	600
1.7	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
1.8	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
1.9	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
2.0	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
2.1	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
2.2	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
2.3	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.2	500
2.4	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
2.5	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
2.6	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
2.7	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
2.8	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
2.9	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.25	450
3.0	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.3	400
3.1	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.3	400
3.2	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.3	400
3.3	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.3	400
3.4	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
3.5	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
3.6	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
3.7	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
3.8	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
3.9	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350
4.0	±0.1, 0.2, 0.3nH	14 / 500MHz	6	0.4	350

AL02 Chip Inductors / Standard Type

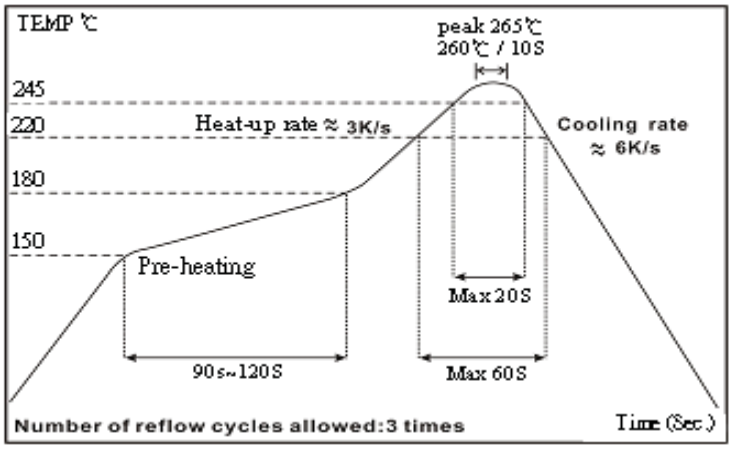
Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
0.2	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.10	800
0.3	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.10	800
0.4	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.10	800
0.5	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.15	700
0.6	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.15	700
0.8	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.15	700
0.9	±0.1, 0.2, 0.3nH	13 / 500MHz	14	0.15	700
1.0	±0.1, 0.2, 0.3nH	13 / 500MHz	12	0.15	700
1.1	±0.1, 0.2, 0.3nH	13 / 500MHz	12	0.15	700
1.2	±0.1, 0.2, 0.3nH	13 / 500MHz	12	0.15	700
1.3	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	700
1.4	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	700
1.5	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	700
1.6	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	560
1.7	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	560
1.8	±0.1, 0.2, 0.3nH	13 / 500MHz	10	0.25	560
1.9	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	560
2.0	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	560
2.1	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.2	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.3	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.4	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.5	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.6	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.7	±0.1, 0.2, 0.3nH	13 / 500MHz	8	0.35	440
2.8	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
2.9	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
3.0	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
3.1	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
3.2	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
3.3	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.45	380
3.4	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	380
3.5	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	380
3.6	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	380
3.7	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	340
3.8	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	340
3.9	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.55	340
4.3	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.65	320
4.7	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.65	320
5.4	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.85	280
5.6	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.85	280
5.9	±0.1, 0.2, 0.3nH	13 / 500MHz	6	0.85	280
6.5	±0.1, 0.2, 0.3nH	13 / 500MHz	6	1.05	260
6.8	±0.1, 0.2, 0.3nH	13 / 500MHz	6	1.05	260
7.2	±0.1, 0.2, 0.3nH	13 / 500MHz	6	1.05	260
8.0	±0.1, 0.2, 0.3nH	13 / 500MHz	5.5	1.25	220
8.1	±0.1, 0.2, 0.3nH	13 / 500MHz	5.5	1.25	220
8.2	±0.1, 0.2, 0.3nH	13 / 500MHz	5.5	1.25	220
9.1	±0.1, 0.2, 0.3nH	13 / 500MHz	5.5	1.25	220
10.0	±1, 2, 3, 5%	13 / 500MHz	4.5	1.35	200
10.8	±1, 2, 3, 5%	13 / 500MHz	4.5	1.35	200
12.0	±1, 2, 3, 5%	13 / 500MHz	3.7	1.55	180
13.8	±1, 2, 3, 5%	13 / 500MHz	3.7	1.75	180
15.0	±1, 2, 3, 5%	13 / 500MHz	3.3	1.75	130
17.0	±1, 2, 3, 5%	13 / 500MHz	3.1	1.95	100
18.0	±1, 2, 3, 5%	13 / 500MHz	3.1	2.15	100
20.8	±1, 2, 3, 5%	13 / 500MHz	2.8	2.55	90
22.0	±1, 2, 3, 5%	13 / 500MHz	2.8	2.65	90
27.0	±1, 2, 3, 5%	13 / 500MHz	2.5	3.25	75
33.0	±5%	13 / 500MHz	2.5	4.50	75

■Environmental Characteristics

Item	Requirement	Test Method
Inductance	As Spec.	Measuring equipment and fixture: 0201: HP4287+Agilent 16196C 0402: HP4287+Agilent 16196B 0603: HP4287+Agilent 16196A
Insulation Resistance	>1000MΩ	**MIL-STD-202 Method 302** Apply 100V_{DC} for 1minute
Damp Heat with Load	△L≦10%	**MIL-STD-202 Method 103B** 40±2 C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Bending Strength	As Spec.	**JIS-C-5201-1 6.1.4** Bending Amplitude 3mm for 10 seconds
Solderability	95% min. coverage	**MIL-STD-202 Method 208H** 245±5°C for 3 seconds
Resistance to Soldering Heat	△L≦10%	**MIL-STD-202 Method 210E** 260±5°C for 10 seconds
Dielectric Withstand Voltage	>100V	**MIL-STD-202 Method 301** Apply 100VA (rms) for 1minute
High Temperature Exposure	△L≦10%	**JIS-C-5201-1 7.2** 85±2°C, 1000 +48/-0 hours
Low Temperature Storage	△L≦10%	**JIS-C-5201-1 7.1** -40±3°C, 1000 +48/-0 hours
Temperature Cycle	△L≦10%	**JIS-C-5201-1 7.4** -40/RT/85/RT, 10 cycles

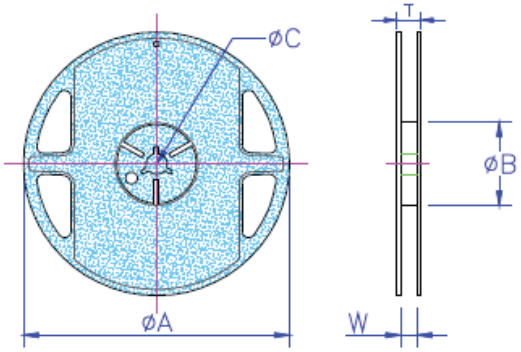
■ **Storage Temperature: 25±3℃; Humidity < 80%RH**

■Reflow



■Packaging

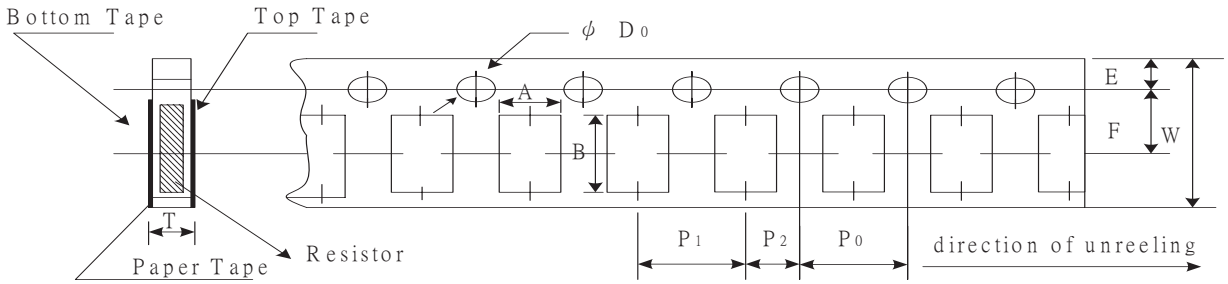
Reel Specifications & Packaging Quantity



Unit: mm

Type	ψA	ψB	ψC	W	T	Quantity (EA)
AL01	178±1.0	60.0+1.0	13.5±0.70	9.5±1.0	11.5±1.0	10,000
AL02	178±1.0	60.0+1.0	13.5±0.70	9.5±1.0	11.5±1.0	10,000

Paper Tape Specifications



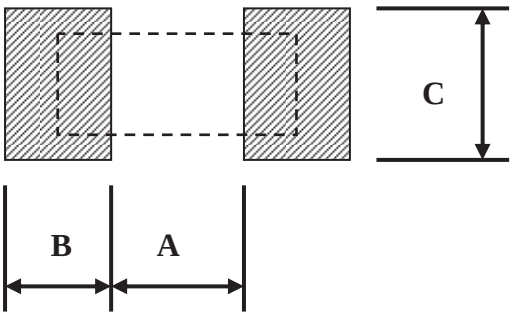
Unit: mm

Type	A	B	W	E	F	P0	P1	P2	ψD0	T
AL01	0.40±0.05	0.70±0.05	8.00±0.10	1.75±0.05	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.55±0.03	0.42±0.02
AL02	0.70±0.05	1.16±0.05	8.00±0.10	1.75±0.05	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.55±0.05	0.40±0.03

Remark：Test Method

Test direction：bar mark faces left

■Recommend Land Pattern



Unit: mm

Type	A	B	C
AL01	0.30	0.25	0.30±0.2
AL02	0.50	0.45	0.60±0.2

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version C2	Feb 27,2013	-	- Add AL01-02 (High Q) specification - Delete AL0603 series specification