



THE DATASHEET OF L-07C2N7SV6T

RF CERAMIC CHIP INDUCTORS



High frequency multi-layer chip inductors feature a monolithic body made of low loss ceramic and high conductivity metal electrodes to achieve optimal high frequency performance.

These RF chip inductors are compact in size and feature lead-free tin plated nickel barrier terminations and tape and reel packaging which makes them ideal for small size/high volume wireless applications.

APPLICATIONS & FEATURES

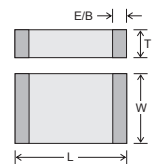
- CELL/PCS Modules
- Broadband Components
- RF Tranceivers
- RoHS Compliant (Standard, "V" Code)
- Sn/Pb Terminations Optional ("T" Code)
- Wireless LAN
- RFID
- 01005 Mini. Size Available

PRODUCT RANGE SUMMARY

EIA SIZE (mm)	SIZE CODE	L RANGE	Q FACTOR (Min.)	SRF (Typ.)	TEMPERATURE
01005 (0402)	L-03	0.8 - 3.9 nH	2 (100 MHz)	>21 GHz (1.0 nH)	-40°C to + 100°C
0201 (0603)	L-05	0.6 - 39 nH	4 (100 MHz)	>21 GHz (1.0 nH)	-40°C to + 100°C
0402 (1005)	L-07	1.0 - 120 nH	8 (100 MHz)	>21 GHz (1.0 nH)	-40°C to + 100°C
0603 (1608)	L-14	1.0 - 220 nH	12 (100 MHz)	>23 GHz (1.0 nH)	-40°C to + 100°C
0805 (2012)	L-15	1.5 - 680 nH	8 (100 MHz)	>21 GHz (1.5 nH)	-40°C to + 100°C

MECHANICAL CHARACTERISTICS

	01005 (0402)		0201 (0603)		0402 (1005)		0603 (1608)		0805 (2012)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
Length	.016 ±.001" (0.4 ± 0.03)		.024 ±.001" (0.6 ± 0.03)		.039 ±.004" (1.00 ± 0.10)		.063 ±.006" (1.60 ± 0.15)		.079 ±.008" (2.00 ± 0.20)	
Width	.008 ±.001" (0.2 ± 0.03)		.012 ±.001" (0.3 ± 0.03)		.020 ±.004" (0.50 ± 0.10)		.031 ±.006" (0.80 ± 0.15)		.047 ±.008" (1.20 ± 0.20)	
Thickness	.008 ±.001" (0.2 ± 0.03)		.012 ±.001" (0.3 ± 0.03)		.020 ±.004" (0.50 ± 0.10)		.031 ±.006" (0.80 ± 0.15)		.033 ±.008" (0.85 ± 0.20)	
End Band	.004 ±.002" (0.1 ± 0.05)		.006 ±.002" (0.15 ± 0.05)		.009 ±.004" (0.23 ± 0.10)		.012 ±.008" (0.30 ± 0.20)		.020 ±.012" (0.50 ± 0.30)	



HOW TO ORDER

L-	07	C	10N	J	V	6	T					
DEVICE	SIZE	TYPE	VALUE	TOLERANCE	TERMINATION	MARKING	TAPE & REEL	Size	Code	Tape	Reel	Qty
Inductor	05 = 0201 07 = 0402 14 = 0603 15 = 0805	Ceramic	See Table	C = ± 0.2 nH ≤ 1.0 nH S = ± 0.3 nH 1.0 to 5.6 nH J = ± 5% 6.8 nH and above K = ± 10% 3.3 nH and above	V = Ni/Sn T = Ni / SnPb	4 = No Marking 6 = Orientation Mark (0402 Only)		0201 0402 0603 0805	T T T E	Paper Paper Paper Embossed	7" 7" 7" 7"	15,000 10,000 4,000 4,000

Part number written: L-07C10NJV6T

01005 INDUCTANCE RANGE / ELECTRICAL CHARACTERISTICS

Part Number	Inductance @ 100 MHz	Tolerance	Q (Min.) @ 100 MHz	Q (Typ.) @ 100 MHz	Q Typ. @ 900 MHz	Q Typ. @ 1800 MHz	Typical SRF Max	DC Resistance	Rated Current
L-03C0N8SV4T	0.8 nH	+/- 0.3 nH	2	3	10	5	> 13500 MHz	0.20 Ω	200 mA
L-03C1N0SV4T	1.0 nH	+/- 0.3 nH	2	3	10	5	> 13500 MHz	0.20 Ω	200 mA
L-03C1N2SV4T	1.2 nH	+/- 0.3 nH	2	3	10	5	> 13500 MHz	0.22 Ω	200 mA
L-03C1N5SV4T	1.5 nH	+/- 0.3 nH	2	3	10	5	> 13500 MHz	0.24 Ω	200 mA
L-03C1N8SV4T	1.8 nH	+/- 0.3 nH	2	3	10	5	> 13500 MHz	0.30 Ω	200 mA
L-03C2N2SV4T	2.2 nH	+/- 0.3 nH	2	3	10	5	12300	0.44 Ω	200 mA
L-03C2N7SV4T	2.7 nH	+/- 0.3 nH	2	3	10	5	11700	0.50 Ω	200 mA
L-03C3N3SV4T	3.3 nH	± 0.3 nH or $\pm 10\%$	2	3	10	5	9800	0.55 Ω	200 mA
L-03C3N9SV4T	3.9 nH	± 0.3 nH or $\pm 10\%$	2	3	10	5	8200	0.60 Ω	200 mA

0201 INDUCTANCE RANGE / ELECTRICAL CHARACTERISTICS

Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-05C0N6CV4T	0.6 nH	± 0.2 nH	4	100 MHz	>13000 MHz	0.12 Ω	300 mA
L-05C0N7CV4T	0.7 nH	± 0.2 nH	4	100 MHz	>13000 MHz	0.12 Ω	300 mA
L-05C0N8CV4T	0.8 nH	± 0.2 nH	4	100 MHz	>13000 MHz	0.12 Ω	300 mA
L-05C0N9CV4T	0.9 nH	± 0.2 nH	4	100 MHz	>13000 MHz	0.12 Ω	300 mA
L-05C1N0*V4T	1.0 nH	± 0.2 or ± 0.3 nH	4	100 MHz	>13000 MHz	0.12 Ω	300 mA
L-05C1N2*V4T	1.2 nH	± 0.2 or ± 0.3 nH	4	100 MHz	>13000 MHz	0.15 Ω	300 mA
L-05C1N3*V4T	1.3 nH	± 0.2 or ± 0.3 nH	4	100 MHz	>13000 MHz	0.15 Ω	300 mA
L-05C1N5*V4T	1.5 nH	± 0.2 or ± 0.3 nH	4	100 MHz	>13000 MHz	0.18 Ω	300 mA
L-05C1N8SV4T	1.8 nH	± 0.3 nH	4	100 MHz	10500 MHz	0.22 Ω	300 mA
L-05C2N2SV4T	2.2 nH	± 0.3 nH	4	100 MHz	9500 MHz	0.26 Ω	300 mA
L-05C2N3SV4T	2.3 nH	± 0.3 nH	4	100 MHz	9200 MHz	0.28 Ω	300 mA
L-05C2N4SV4T	2.4 nH	± 0.3 nH	4	100 MHz	9000 MHz	0.30 Ω	300 mA
L-05C2N5SV4T	2.5 nH	± 0.3 nH	4	100 MHz	9000 MHz	0.30 Ω	300 mA
L-05C2N7SV4T	2.7 nH	± 0.3 nH	4	100 MHz	8500 MHz	0.32 Ω	300 mA
L-05C3N0@V4T	3.0 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	8000 MHz	0.36 Ω	300 mA
L-05C3N3@V4T	3.3 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	7500 MHz	0.38 Ω	300 mA
L-05C3N6@V4T	3.6 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	7000 MHz	0.43 Ω	300 mA
L-05C3N7@V4T	3.7 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	6900 MHz	0.44 Ω	300 mA
L-05C3N9@V4T	3.9 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	6800 MHz	0.45 Ω	300 mA
L-05C4N7@V4T	4.7 nH	± 0.3 nH $\pm 10\%$	4	100 MHz	6000 MHz	0.50 Ω	300 mA
L-05C5N1@V4T	5.1 nH	± 0.3 nH $\pm 10\%$	5	100 MHz	5700 MHz	0.55 Ω	300 mA
L-05C5N6@V4T	5.6 nH	± 0.3 nH $\pm 10\%$	5	100 MHz	5500 MHz	0.60 Ω	300 mA
L-05C6N8#V4T	6.8 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	4800 MHz	0.70 Ω	250 mA
L-05C8N2#V4T	8.2 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	4600 MHz	0.90 Ω	250 mA
L-05C10N#V4T	10.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	4000 MHz	1.20 Ω	250 mA
L-05C12N#V4T	12.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	3500 MHz	1.30 Ω	250 mA
L-05C13N#V4T	13.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	3500 MHz	1.35 Ω	250 mA
L-05C15N#V4T	15.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	3000 MHz	1.40 Ω	250 mA
L-05C18N#V4T	18.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	2500 MHz	1.50 Ω	200 mA
L-05C22N#V4T	22.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	2200 MHz	1.80 Ω	200 mA
L-05C27N#V4T	27.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	1800 MHz	2.00 Ω	200 mA
L-05C33N#V4T	33.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	1500 MHz	2.30 Ω	200 mA
L-05C39N#V4T	39.0 nH	$\pm 5\%$ $\pm 10\%$	5	100 MHz	1400 MHz	2.50 Ω	200 mA

0402 INDUCTANCE RANGE / ELECTRICAL CHARACTERISTICS

Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-07C1N0*V6T	1.0 nH	± 0.2 or 0.3 nH	8	100 MHz	>15000 MHz	0.12 Ω	300 mA
L-07C1N2SV6T	1.2 nH	± 0.3 nH	8	100 MHz	>15000 MHz	0.12 Ω	300 mA
L-07C1N5SV6T	1.5 nH	± 0.3 nH	8	100 MHz	>15000 MHz	0.13 Ω	300 mA
L-07C1N6SV6T	1.6 nH	± 0.3 nH	8	100 MHz	14000 MHz	0.14 Ω	300 mA
L-07C1N8SV6T	1.8 nH	± 0.3 nH	8	100 MHz	14000 MHz	0.14 Ω	300 mA
L-07C1N9SV6T	1.9 nH	± 0.3 nH	8	100 MHz	13000 MHz	0.15 Ω	300 mA
L-07C2N0SV6T	2.0 nH	± 0.3 nH	8	100 MHz	12000 MHz	0.16 Ω	300 mA
L-07C2N2SV6T	2.2 nH	± 0.3 nH	8	100 MHz	12000 MHz	0.16 Ω	300 mA

* = Choice of C or S Tolerance, @ = S or K Tolerance, # = J or K Tolerance



0402 CONTINUED

Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-07C2N4SV6T	2.4 nH	± 0.3 nH	8	100 MHz	10000 MHz	0.16 Ω	300 mA
L-07C2N7SV6T	2.7 nH	± 0.3 nH	8	100 MHz	9500 MHz	0.17 Ω	300 mA
L-07C3N0@V6T	3.0 nH	± 0.3 nH	8	100 MHz	9000 MHz	0.18 Ω	300 mA
L-07C3N3@V6T	3.3 nH	± 0.3 nH ±10%	8	100 MHz	8500 MHz	0.19 Ω	300 mA
L-07C3N6@V6T	3.6 nH	± 0.3 nH ±10%	8	100 MHz	7500 MHz	0.21 Ω	300 mA
L-07C3N9@V6T	3.9 nH	± 0.3 nH ±10%	8	100 MHz	7000 MHz	0.22 Ω	300 mA
L-07C4N3@V6T	4.3 nH	± 0.3 nH ±10%	8	100 MHz	6000 MHz	0.24 Ω	300 mA
L-07C4N7@V6T	4.7 nH	± 0.3 nH ±10%	8	100 MHz	6000 MHz	0.24 Ω	300 mA
L-07C5N1@V6T	5.1 nH	± 0.3 nH ±10%	8	100 MHz	5500 MHz	0.26 Ω	300 mA
L-07C5N6@V6T	5.6 nH	± 0.3 nH ±10%	8	100 MHz	5400 MHz	0.27 Ω	300 mA
L-07C6N2#V6T	6.2 nH	±5% ±10%	8	100 MHz	5200 MHz	0.30 Ω	300 mA
L-07C6N8#V6T	6.8 nH	±5% ±10%	8	100 MHz	5000 MHz	0.32 Ω	250 mA
L-07C7N5#V6T	7.5 nH	±5% ±10%	8	100 MHz	4600 MHz	0.40 Ω	250 mA
L-07C8N2#V6T	8.2 nH	±5% ±10%	8	100 MHz	4600 MHz	0.40 Ω	250 mA
L-07C10N#V6T	10.0 nH	±5% ±10%	8	100 MHz	3700 MHz	0.45 Ω	250 mA
L-07C12N#V6T	12.0 nH	±5% ±10%	8	100 MHz	3200 MHz	0.50 Ω	250 mA
L-07C13N#V6T	13.0 nH	±5% ±10%	8	100 MHz	3100 MHz	0.55 Ω	250 mA
L-07C15N#V6T	15.0 nH	±5% ±10%	8	100 MHz	3100 MHz	0.60 Ω	250 mA
L-07C18N#V6T	18.0 nH	±5% ±10%	8	100 MHz	2900 MHz	0.65 Ω	200 mA
L-07C20N#V6T	20.0 nH	±5% ±10%	8	100 MHz	2100 MHz	0.80 Ω	200 mA
L-07C22N#V6T	22.0 nH	±5% ±10%	8	100 MHz	2100 MHz	0.80 Ω	200 mA
L-07C23N#V6T	23.0 nH	±5% ±10%	8	100 MHz	2100 MHz	0.85 Ω	200 mA
L-07C27N#V6T	27.0 nH	±5% ±10%	8	100 MHz	1900 MHz	0.90 Ω	200 mA
L-07C33N#V6T	33.0 nH	±5% ±10%	8	100 MHz	1600 MHz	1.00 Ω	200 mA
L-07C39N#V6T	39.0 nH	±5% ±10%	8	100 MHz	1400 MHz	1.20 Ω	150 mA
L-07C43N#V6T	43.0 nH	±5% ±10%	8	100 MHz	1300 MHz	1.30 Ω	150 mA
L-07C47N#V6T	47.0 nH	±5% ±10%	8	100 MHz	1200 MHz	1.30 Ω	150 mA
L-07C56N#V6T	56.0 nH	±5% ±10%	8	100 MHz	1100 MHz	2.00 Ω	150 mA
L-07C68N#V6T	68.0 nH	±5% ±10%	8	100 MHz	1000 MHz	2.20 Ω	100 mA
L-07C82N#V6T	82.0 nH	±5% ±10%	8	100 MHz	900 MHz	2.50 Ω	100 mA
L-07CR10#V6T	100 nH	±5% ±10%	8	100 MHz	850 MHz	2.50 Ω	100 mA
L-07CR12#V6T	120 nH	±5% ±10%	8	50 MHz	750 MHz	2.50 Ω	100 mA

0603 INDUCTANCE RANGE / ELECTRICAL CHARACTERISTICS

Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-14C1N0SV4T	1.0 nH	± 0.3 nH	8	100 MHz	>17000 MHz	0.10 Ω	300 mA
L-14C1N2SV4T	1.2 nH	± 0.3 nH	8	100 MHz	>17000 MHz	0.10 Ω	300 mA
L-14C1N5SV4T	1.5 nH	± 0.3 nH	8	100 MHz	>17000 MHz	0.10 Ω	300 mA
L-14C1N8SV4T	1.8 nH	± 0.3 nH	8	100 MHz	13000 MHz	0.10 Ω	300 mA
L-14C2N2SV4T	2.2 nH	± 0.3 nH	8	100 MHz	12000 MHz	0.15 Ω	300 mA
L-14C2N7SV4T	2.7 nH	± 0.3 nH	8	100 MHz	8600 MHz	0.15 Ω	300 mA
L-14C3N3@V4T	3.3 nH	± 0.3 nH ±10%	8	100 MHz	6500 MHz	0.20 Ω	300 mA
L-14C3N9@V4T	3.9 nH	± 0.3 nH ±10%	8	100 MHz	6300 MHz	0.20 Ω	300 mA
L-14C4N7@V4T	4.7 nH	± 0.3 nH ±10%	8	100 MHz	5400 MHz	0.20 Ω	300 mA
L-14C5N6@V4T	5.6 nH	± 0.3 nH ±10%	8	100 MHz	4600 MHz	0.25 Ω	300 mA
L-14C6N8#V4T	6.8 nH	±5% ±10%	8	100 MHz	4500 MHz	0.30 Ω	300 mA
L-14C8N2#V4T	8.2 nH	±5% ±10%	8	100 MHz	3800 MHz	0.33 Ω	300 mA
L-14C10N#V4T	10.0 nH	±5% ±10%	8	100 MHz	3700 MHz	0.35 Ω	300 mA
L-14C12N#V4T	12.0 nH	±5% ±10%	8	100 MHz	3200 MHz	0.40 Ω	300 mA
L-14C15N#V4T	15.0 nH	±5% ±10%	8	100 MHz	2900 MHz	0.45 Ω	300 mA
L-14C18N#V4T	18.0 nH	±5% ±10%	10	100 MHz	2100 MHz	0.50 Ω	300 mA
L-14C22N#V4T	22.0 nH	±5% ±10%	10	100 MHz	2100 MHz	0.55 Ω	300 mA
L-14C27N#V4T	27.0 nH	±5% ±10%	10	100 MHz	2000 MHz	0.60 Ω	300 mA
L-14C33N#V4T	33.0 nH	±5% ±10%	10	100 MHz	1600 MHz	0.65 Ω	300 mA
L-14C39N#V4T	39.0 nH	±5% ±10%	10	100 MHz	1500 MHz	0.70 Ω	300 mA
L-14C47N#V4T	47.0 nH	±5% ±10%	12	100 MHz	1200 MHz	0.90 Ω	300 mA

@ = Choice of S or K Tolerance, # = J or K Tolerance



0603 CONTINUED

Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-14C56N#V4T	56.0 nH	±5% ±10%	12	100 MHz	1100 MHz	1.00 Ω	300 mA
L-14C68N#V4T	68.0 nH	±5% ±10%	12	100 MHz	1000 MHz	1.10 Ω	300 mA
L-14C82N#V4T	82.0 nH	±5% ±10%	12	100 MHz	850 MHz	1.20 Ω	300 mA
L-14CR10#V4T	100 nH	±5% ±10%	12	100 MHz	750 MHz	1.20 Ω	300 mA
L-14CR12#V4T	120 nH	±5% ±10%	8	50 MHz	700 MHz	1.30 Ω	300 mA
L-14CR15#V4T	150 nH	±5% ±10%	8	50 MHz	650 MHz	1.40 Ω	300 mA
L-14CR18#V4T	180 nH	±5% ±10%	8	50 MHz	550 MHz	1.50 Ω	300 mA
L-14CR22#V4T	220 nH	±5% ±10%	8	50 MHz	450 MHz	1.70 Ω	300 mA

0805 INDUCTANCE RANGE / ELECTRICAL CHARACTERISTICS

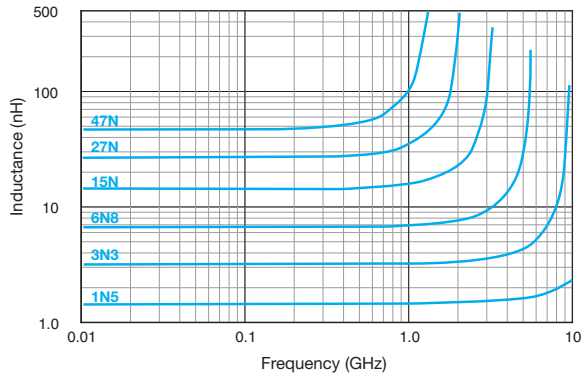
Part Number	Inductance	Tolerance	Q (Min.)	L/Q Freq.	Typical SRF	DC Resistance Max	Rated Current
L-15C1N5SV4E	1.5 nH	± 0.3 nH	10	100 MHz	>6000 MHz	0.10 Ω	300 mA
L-15C1N8SV4E	1.8 nH	± 0.3 nH	10	100 MHz	>6000 MHz	0.10 Ω	300 mA
L-15C2N2SV4E	2.2 nH	± 0.3 nH	10	100 MHz	>6000 MHz	0.10 Ω	300 mA
L-15C2N7SV4E	2.7 nH	± 0.3 nH	12	100 MHz	>6000 MHz	0.12 Ω	300 mA
L-15C3N3@V4E	3.3 nH	± 0.3 nH ±10%	12	100 MHz	>6000 MHz	0.13 Ω	300 mA
L-15C3N9@V4E	3.9 nH	± 0.3 nH ±10%	12	100 MHz	5600 MHz	0.15 Ω	300 mA
L-15C4N7@V4E	4.7 nH	± 0.3 nH ±10%	12	100 MHz	5500 MHz	0.20 Ω	300 mA
L-15C5N6@V4E	5.6 nH	± 0.3 nH ±10%	12	100 MHz	4700 MHz	0.23 Ω	300 mA
L-15C6N8#V4E	6.8 nH	±5% ±10%	15	100 MHz	3900 MHz	0.25 Ω	300 mA
L-15C8N2#V4E	8.2 nH	±5% ±10%	15	100 MHz	3200 MHz	0.28 Ω	300 mA
L-15C10N#V4E	10.0 nH	±5% ±10%	15	100 MHz	3100 MHz	0.30 Ω	300 mA
L-15C12N#V4E	12.0 nH	±5% ±10%	15	100 MHz	2800 MHz	0.35 Ω	300 mA
L-15C15N#V4E	15.0 nH	±5% ±10%	15	100 MHz	2400 MHz	0.40 Ω	300 mA
L-15C18N#V4E	18.0 nH	±5% ±10%	15	100 MHz	2100 MHz	0.45 Ω	300 mA
L-15C22N#V4E	22.0 nH	±5% ±10%	15	100 MHz	2000 MHz	0.50 Ω	300 mA
L-15C27N#V4E	27.0 nH	±5% ±10%	15	100 MHz	1800 MHz	0.55 Ω	300 mA
L-15C33N#V4E	33.0 nH	±5% ±10%	15	100 MHz	1700 MHz	0.60 Ω	300 mA
L-15C39N#V4E	39.0 nH	±5% ±10%	18	100 MHz	1400 MHz	0.65 Ω	300 mA
L-15C47N#V4E	47.0 nH	±5% ±10%	18	100 MHz	1200 MHz	0.70 Ω	300 mA
L-15C56N#V4E	56.0 nH	±5% ±10%	18	100 MHz	1000 MHz	0.75 Ω	300 mA
L-15C68N#V4E	68.0 nH	±5% ±10%	18	100 MHz	900 MHz	0.80 Ω	300 mA
L-15C82N#V4E	82.0 nH	±5% ±10%	18	100 MHz	900 MHz	0.85 Ω	300 mA
L-15CR10#V4E	100 nH	±5% ±10%	18	100 MHz	700 MHz	0.90 Ω	300 mA
L-15CR12#V4E	120 nH	±5% ±10%	13	50 MHz	600 MHz	0.95 Ω	300 mA
L-15CR15#V4E	150 nH	±5% ±10%	13	50 MHz	500 MHz	1.00 Ω	300 mA
L-15CR18#V4E	180 nH	±5% ±10%	13	50 MHz	430 MHz	1.10 Ω	300 mA
L-15CR22#V4E	220 nH	±5% ±10%	12	50 MHz	400 MHz	1.20 Ω	300 mA
L-15CR27#V4E	270 nH	±5% ±10%	12	50 MHz	340 MHz	1.30 Ω	300 mA
L-15CR33#V4E	330 nH	±5% ±10%	12	50 MHz	320 MHz	1.50 Ω	300 mA
L-15CR39#V4E	390 nH	±5% ±10%	10	50 MHz	270 MHz	1.60 Ω	300 mA
L-15CR47#V4E	470 nH	±5% ±10%	10	50 MHz	250 MHz	1.80 Ω	300 mA
L-15CR56#V4E	560 nH	±5% ±10%	10	50 MHz	230 MHz	2.50 Ω	300 mA
L-15CR68#V4E	680 nH	±5% ±10%	10	50 MHz	180 MHz	3.00 Ω	300 mA

"@ = Choice of S or K Tolerance, # = J or K Tolerance"

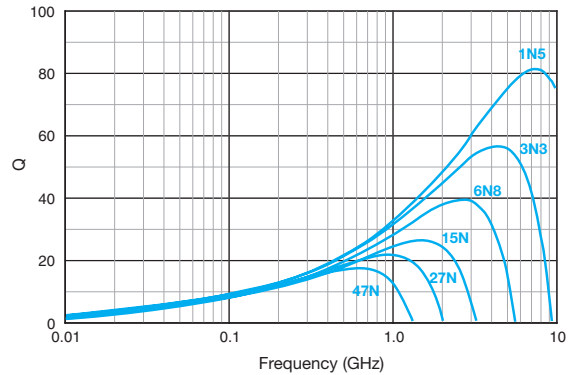


RF CHARACTERISTICS CHARACTERISTICS (TYPICAL)

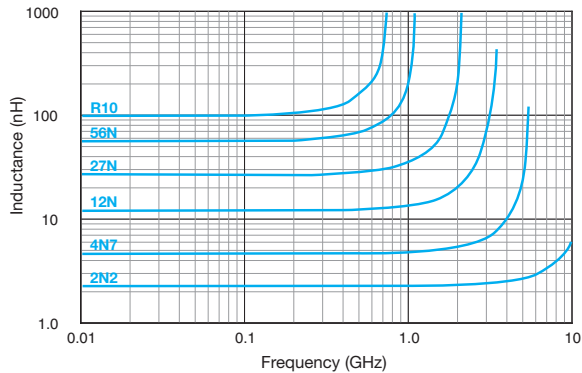
INDUCTANCE VS FREQUENCY: SIZE 0402



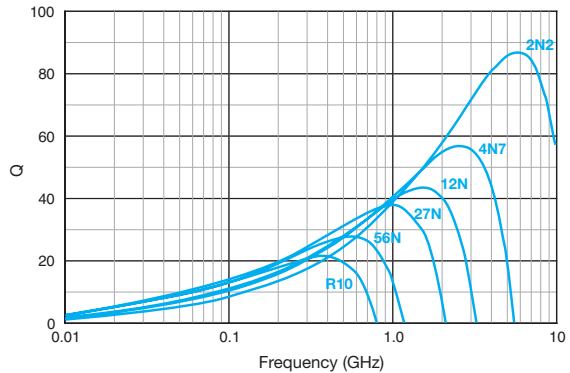
Q VS FREQUENCY: SIZE 0402



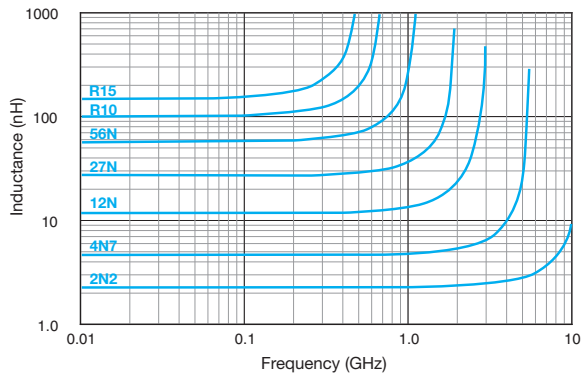
INDUCTANCE VS FREQUENCY: SIZE 0603



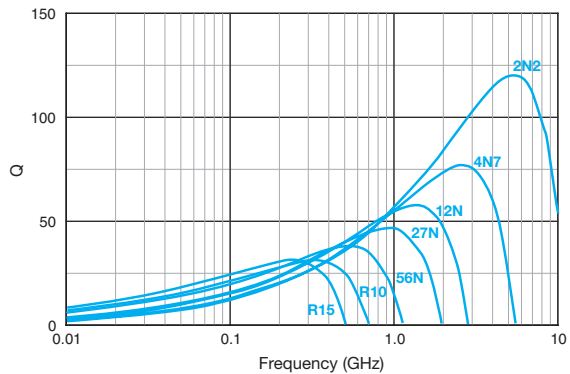
Q VS FREQUENCY: SIZE 0603



INDUCTANCE VS FREQUENCY: SIZE 0805



Q VS FREQUENCY: SIZE 0805



MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

SPECIFICATION

SOLDERABILITY:	Solder coverage $\geq 75\%$ of electrodes $L=\pm 10\%$ $Q=\pm 20\%$
RESISTANCE TO SOLDERING:	No apparent damage Solder coverage $\geq 75\%$ $L=\pm 10\%$ $Q=\pm 20\%$
THERMAL SHOCK:	No apparent damage $L=\pm 10\%$ $Q=\pm 20\%$
LIFE TEST:	No apparent damage $L=\pm 10\%$ $Q=\pm 20\%$
HUMIDITY RESISTANCE:	Inductance change: 2% or .5pF Max
TERMINAL ADHESION:	Termination should not pull off. Ceramic should remain undamaged.
PCB DEFLECTION:	No mechanical damage.

TEST PARAMETERS

Preheat $120\pm 20^\circ\text{C}$ for 1 min. Dip $230\pm 10^\circ\text{C}$ for 3 ± 1 sec.
 Preheat $120\pm 20^\circ\text{C}$ for 1 min. Dip $260\pm 10^\circ\text{C}$ for 10 ± 1 sec.
 100 cycles: 30 ± 3 minutes @ $+100^\circ\text{C}$ then 30 ± 3 min. @ -40°C
 1000 ± 48 Hours @ $+85\pm 2^\circ\text{C}$, rated current (1-2 hour recovery)
 1000 ± 48 Hours @ $+40\pm 2^\circ\text{C}$, 90-95% relative humidity, rated current (1-2 hour recovery)
 Lateral pull force: 0201 $\geq 1.0\text{Lbs}$ 0402 $\geq 1.6\text{Lbs}$
 For 0603 $\geq 2.2\text{Lbs}$ For 0805 $\geq 4.4\text{Lbs}$
 Glass Epoxy PCB: 1 mm deflection

Looking for pricing, stock, or lifecycle information?

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⊖ [Johanson Technology Inc.](#) Information

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