

MODEL BCL 322522

Surface Mount

Inductors

Size: 1210



OUTSTANDING FEATURES

- Wound ferrite core for low DCR
- Molded construction provides superior strength and moisture resistance
- Accurate dimensions for automatic handling and machine placement
- Compatible with vapor phase and infrared reflow soldering
- Wide inductance range in a small package

APPLICATIONS

- Instrumentation
- Mobil Communication Equipment
- Notebook Computer
- Video and Audio Equipment
- Video Games
- Medical Equipment

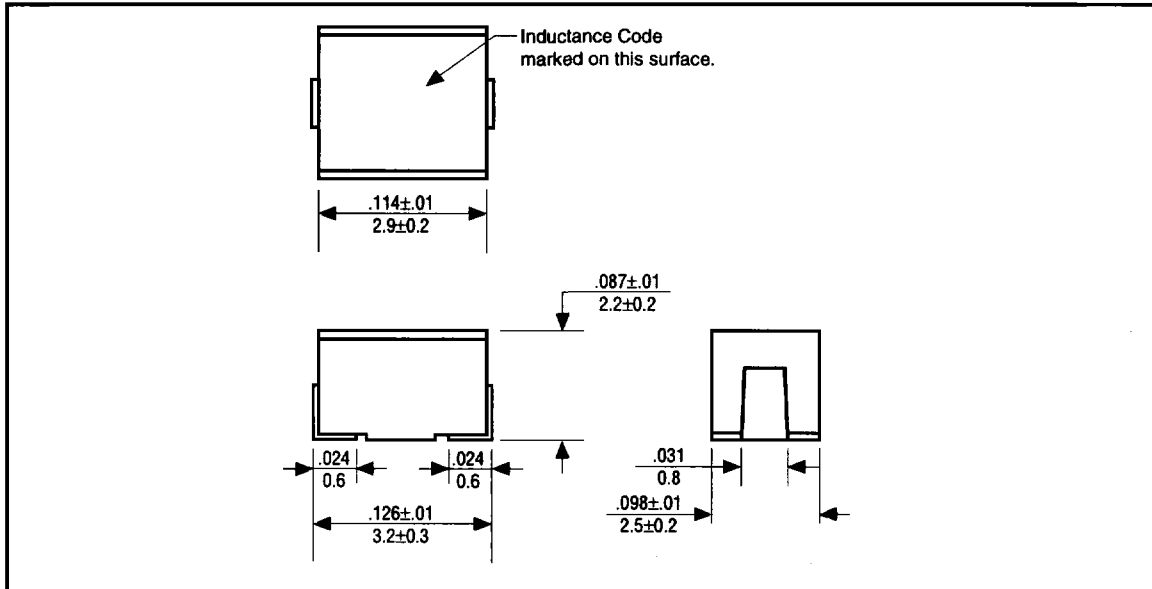
ELECTRICAL / ENVIRONMENTAL

Inductance Range	0.12 μ H to 220 μ H
Standard Tolerance	$\pm 10\%$ (<2.7 μ H = $\pm 20\%$)
Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +100°C
Ambient Temperature, Maximum	80°C
Resistance to Solder Heat	260°C for 10 sec.
Terminal Pull Strength, Minimum	0.5 KG

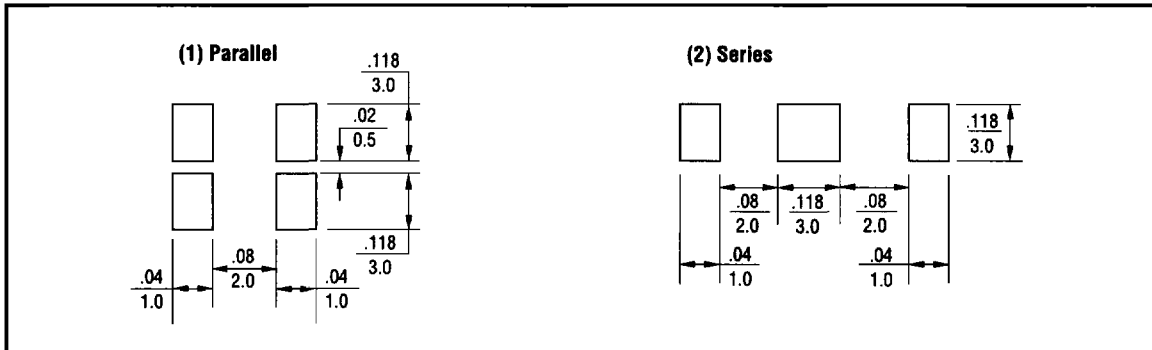
Specifications subject to change without notice.

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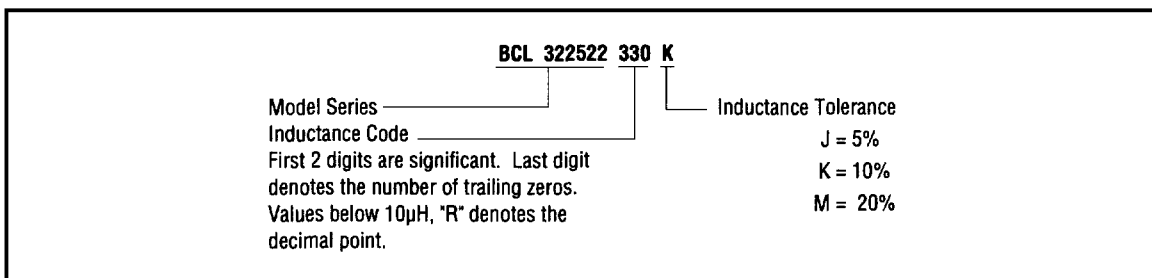
OUTLINE DIMENSIONS (Inch/mm)



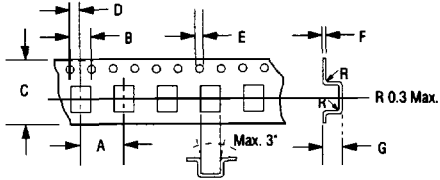
RECOMMENDED PCB LAYOUT (Inch/mm)



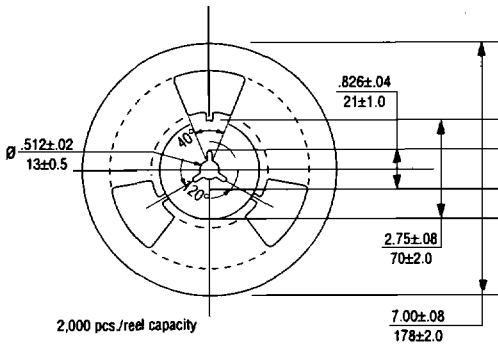
ORDERING INFORMATION



PACKAGING (INCH/mm)

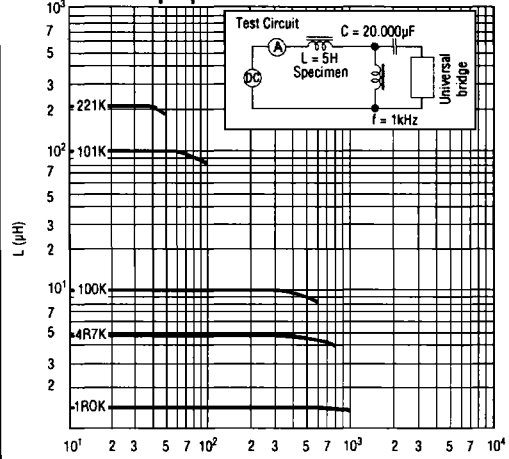


	A	B	C	D	E	F	G
Inch	.158	.158	.315	.079	.059	.012	.091
mm	4.0	4.0	8.0	2.0	1.5	0.3	2.3

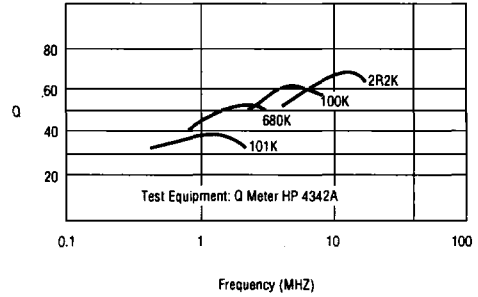


PERFORMANCE

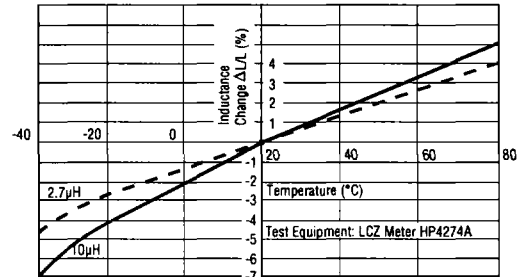
Inductance Change vs. DC Superposition Characteristics



Q vs. Frequency Response



Inductance Change vs. Temperature Response



SPECIFICATIONS

Model	Inductance	Q Min. (μ H)	Test Freq. (mHz)	SRF Min. (mHz)	RDC Max. (Ohm)	Rated Current IDC (mA)
BCL322522-R12 M	0.12 \pm 20%	30	25.2	500	0.22	450
BCL322522-R15 M	0.15 \pm 20%	30	25.2	450	0.25	450
BCL322522-R18 M	0.18 \pm 20%	30	25.2	400	0.28	450
BCL322522-R22 M	0.22 \pm 20%	30	25.2	350	0.32	450
BCL322522-R27 M	0.27 \pm 20%	30	25.2	320	0.36	450
BCL322522-R33 M	0.33 \pm 20%	30	25.2	300	0.40	450
BCL322522-R39 M	0.39 \pm 20%	30	25.2	250	0.45	450
BCL322522-R47 M	0.47 \pm 20%	30	25.2	220	0.50	450
BCL322522-R56 M	0.56 \pm 20%	30	25.2	180	0.55	450
BCL322522-R68 M	0.68 \pm 20%	30	25.2	160	0.60	450
BCL322522-R82 M	0.82 \pm 20%	30	25.2	140	0.65	450
BCL322522-1R0 M	1.0 \pm 20%	30	7.96	120	0.70	400
BCL322522-1R2 M	1.2 \pm 20%	30	7.96	100	0.75	390
BCL322522-1R5 M	1.5 \pm 20%	30	7.96	85	0.85	370
BCL322522-1R8 M	1.8 \pm 20%	30	7.96	80	0.90	350
BCL322522-2R2 M	2.2 \pm 20%	30	7.96	75	1.00	320
BCL322522-2R7 M	2.7 \pm 20%	30	7.96	70	1.10	290
BCL322522-3R3 K	3.3 \pm 10%	30	7.96	60	1.20	260
BCL322522-3R9 K	3.9 \pm 10%	30	7.96	55	1.30	250
BCL322522-4R7 K	4.7 \pm 10%	30	7.96	50	1.50	220
BCL322522-5R6 K	5.6 \pm 10%	30	7.96	47	1.60	200
BCL322522-6R8 K	6.8 \pm 10%	30	7.96	43	1.80	180
BCL322522-8R2 K	8.2 \pm 10%	30	7.96	40	2.00	170
BCL322522-100 K	10.0 \pm 10%	30	2.52	36	2.10	150
BCL322522-120 K	12.0 \pm 10%	30	2.52	33	2.50	140
BCL322522-150 K	15.0 \pm 10%	30	2.52	28	2.80	130
BCL322522-180 K	18.0 \pm 10%	30	2.52	25	3.30	120
BCL322522-220 K	22.0 \pm 10%	30	2.52	23	3.70	110
BCL322522-270 K	27.0 \pm 10%	30	2.52	18	5.00	80
BCL322522-330 K	33.0 \pm 10%	30	2.52	17	5.60	70
BCL322522-390 K	39.9 \pm 10%	30	2.52	16	6.40	65
BCL322522-470 K	47.0 \pm 10%	30	2.52	15	7.00	60
BCL322522-560 K	56.0 \pm 10%	30	2.52	13	8.00	55
BCL322522-680 K	68.0 \pm 10%	30	2.52	12	9.00	50
BCL322522-820 K	82.0 \pm 10%	30	2.52	11	10.00	45
BCL322522-101 K	100 \pm 10%	20	0.796	10	11.00	40
BCL322522-121 K	120 \pm 10%	20	0.796	10	12.00	70
BCL322522-151 K	150 \pm 10%	20	0.796	8	15.00	65
BCL322522-181 K	180 \pm 10%	20	0.796	7	17.00	60
BCL322522-221 K	220 \pm 10%	20	0.796	7	21.00	50