Vishay Dale



Surface Mount, Multi Layer High Frequency Ceramic Inductor





MECHANICAL SPECIFICATIONS

Solderability: 90 % coverage after 5 second dip in 235 °C solder following 60 s preheat at 120 °C and type R flux dip Resistance to Solder Heat: 10 s in 260 °C solder, after

preheat and flux above

Terminal Strength: 0.2 kg (0.44 lbs) for 30 s

Beam Strength: 0.2 kg (0.44 lbs)

FEATURES

- · High reliability
- Surface mountable
- Reflow or wave solderable
- Tape and reel packaging per EIA specifications: 4000 pieces on 7" reel
- 100 % lead (Pb)-free and RoHS compliant

Flex: 0.0788" [2.0 mm] minimum mounted on

0.063" [1.6 mm] thick PC board



COMPLIANT

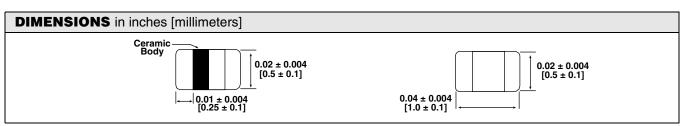
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: - 55 °C to + 125 °C Thermal Shock: 100 cycles, - 40 °C to + 85 °C

Humidity: + 40 °C, 85 % RH, 1000 h at full rated current

Load Life: 85 °C for 1000 h full rated current

STANDARD ELECTRICAL SPECIFICATIONS											
	INDUCTANCE			TEST	Q (TYPICAL)			DCR	SRF (MHz)		MAX. RATED
PART NUMBER	(nH)	TOL.	Q (MIN.)	FREQUENCY (MHz)	100 MHz	500 MHz	1000 MHz	MAX. (Ω)	MIN.	TYP	CURRENT (mA)
ILC0402ER1N0S ILC0402ER1N2S ILC0402ER1N5S ILC0402ER1N8S ILC0402ER2N2S ILC0402ER3N3S ILC0402ER3N9S ILC0402ER3N9S ILC0402ER3N9S ILC0402ER3N9S ILC0402ER3N9S ILC0402ER3N9J ILC0402ER10NJ ILC0402ER15NJ ILC0402ER15NJ ILC0402ER18NJ ILC0402ER3NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ ILC0402ER8NJ	1.0 1.2 1.5 1.8 22.3 3.9 4.7 56.8 8.2 102 15 182 27 33 347 66 682 100	++++++++++++++++++++++++++++++++++++++	© 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	100 100 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1	21 23 25 25 21 29 19 20 19 20 18 19 20 22 19 11 18 21 19 21 19	30 31 35 32 331 326 266 29 233 24 25 20 20 15 14 18 2	0.12 0.13 0.14 0.16 0.17 0.22 0.24 0.32 0.37 0.42 0.55 0.65 0.80 0.90 1.20 1.40 1.40 2.20 2.00	10 000 10000 6000 6000 6000 4000 4000 4000	18 000 17 000 11 000 8700 7800 6400 5800 5100 4700 3800 3400 2500 2200 2200 2200 1800 1200 1200 1200 12	300 300 300 300 300 300 300 300 250 250 250 250 200 200 200 150 150 150 100



DESCRIPTION											
ILC-0402 MODEL	10 nH INDUCTANCE VALUE	± 10 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD							
GLOBAL PART N	JMBER										
PRODUCT FAMILY	0 4 0 SIZE	PACK/COD		O N K UCTANCE TOL.							



Vishay

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