

MOLDED CHIP INDUCTOR
SERIES IC1210
ECO 06-01-2021

FEATURES

- High reliability, excellent for automatic insertion in high density circuit designs
- Large electrodes and strong terminals allow a more secure bonding to solder pads
- Ideal for replacing thru-hole inductors where higher density and more reliability are required

ELECTRICAL CHARACTERISTICS

- Inductance range 0.12μH to 220μH
- Tolerance ± 20% for values under 1.0μH
 ± 10% for values at or above 1.0μH
 Special tolerances are available on special order.
- Rated current Based on L0 drop 10% max. and temperature rise of 20°C max.
- Test procedure L & Q are measured with HP-4191A & HP-4192A

PHYSICAL CHARACTERISTICS

- Operating temp. -40°C to +125°C
- Construction RoHS & MSL 1
- Soldering heat 260°C for 10 seconds
- Solder reflow resistance
 Preheat: 150°C for 3 minutes
 Peak temperature: 250°C
 Dwelling time: 20-40 seconds
 200°C-250°C ramp rate 3°C/second
- Terminal Lead frame
- Terminal strength 3 lbs pull test
- Resistance to solvent Conforms to MIL-STD-202F
- Marking On part: Inductance Code
 On reel: Part number, Quantity, Production date
- Packaging 2000 pieces per reel
- Reel specifications 178 mm paper reel with embossed carrier tape 8 mm width, 4 mm pitch

SPECIFICATIONS

Part Number	L (μH)	Tol (%)	Q Min	Test Freq (MHz)	SRF Typ. (MHz)	DCR Max (Ω)	Rated Current (mA)
		±20		25.2			
IC1210-R12M	0.12		30		875	0.22	450
IC1210-R15M	0.15		30		860	0.25	450
IC1210-R18M	0.18		30		685	0.28	450
IC1210-R22M	0.22		30		560	0.32	450
IC1210-R27M	0.27		30		525	0.36	450
IC1210-R33M	0.33		30		520	0.40	450
IC1210-R39M	0.39		30		470	0.45	450
IC1210-R47M	0.47		30		430	0.50	450
IC1210-R56M	0.56		30		395	0.55	450
IC1210-R68M	0.68		30		370	0.60	450
IC1210-R82M	0.82		30		310	0.65	450
		±10		7.96			
IC1210-1R0K	1.0		30		295	0.70	400
IC1210-1R2K	1.2		30		255	0.75	390
IC1210-1R5K	1.5		30		160	0.85	370
IC1210-1R8K	1.8		30		125	0.90	350
IC1210-2R2K	2.2		30		100	1.00	320
IC1210-2R7K	2.7		30		65	1.10	290
IC1210-3R3K	3.3		30		55	1.20	260
IC1210-3R9K	3.9		30		50	1.30	250
IC1210-4R7K	4.7		30		45	1.50	220
IC1210-5R6K	5.6		30		40	1.60	200
IC1210-6R8K	6.8		30		35	1.80	180
IC1210-8R2K	8.2		30		30	2.00	170
				2.52			
IC1210-100K	10		30		30	2.10	150
IC1210-120K	12		30		28	2.50	140
IC1210-150K	15		30		25	2.80	130
IC1210-180K	18		30		22	3.30	120
IC1210-220K	22		30		19	3.70	110
IC1210-270K	27		30		18	5.00	80
IC1210-330K	33		30		17	5.60	70
IC1210-390K	39		30		15	6.40	65
IC1210-470K	47		30		14	7.00	60
IC1210-560K	56		30		13	8.00	55
IC1210-680K	68		30		11	9.00	50
IC1210-820K	82		30		10	10.00	45
				0.796			
IC1210-101K	100		20		9	11.00	40
IC1210-121K	120		20		8	12.00	70
IC1210-151K	150		20		7	15.00	65

DIMENSIONS IN MILLIMETERS

- Body length A 3.2 mm ± 0.4 mm
- Body width B 2.5 mm ± 0.2 mm
- Body height C 2.2 mm ± 0.2 mm
- Terminal length D 0.6 mm + 0.3 mm
- Terminal width E 1.0 mm ± 0.2 mm

