

**MOLDED CHIP INDUCTOR
SERIES IC1210**

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 0.10 μ H to 220 μ H
- Tolerance \pm 20% for values under 1.0 μ H
 \pm 10% for values at or above 1.0 μ H
 Special tolerances are available on special order.
- Rated current Based on current flow and temperature rise of 20°C max.
- Test procedure L & Q are measured with HP-4191A & HP-4192A

PHYSICAL CHARACTERISTICS

- Operating temp. -55°C to +105°C
- Construction Wire wound, epoxy molding
- Soldering heat 240°C for 10 seconds
- Solderability resistance
Preheat: 120°C for 4 minutes
Solder temperature: 215°C
Dwelling time: 3 seconds
95% of terminals are covered with solder
- Terminal Lead frame
- Terminal strength 3 lbs pull test
- Resistance to solvent Conforms to MIL-STD-202E
- Marking On part: Inductance
 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 (μ H)	Tol (%)	Q Min	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ω)	Rated Current (mA)
IC1210-R10M	0.10	\pm 20	28	25.2	700	0.44	450
IC1210-R12M	0.12		30		500	0.22	450
IC1210-R15M	0.15		30		450	0.25	450
IC1210-R18M	0.18		30		400	0.28	450
IC1210-R22M	0.22		30		350	0.32	450
IC1210-R27M	0.27		30		320	0.36	450
IC1210-R33M	0.33		30		300	0.40	450
IC1210-R39M	0.39		30		250	0.45	450
IC1210-R47M	0.47		30		220	0.50	450
IC1210-R56M	0.56		30		180	0.55	450
IC1210-R68M	0.68		30		160	0.60	450
IC1210-R82M	0.82		30		140	0.65	450
IC1210-1R0K	1.0	\pm 10	30	7.96	120	0.70	400
IC1210-1R2K	1.2		30		100	0.75	390
IC1210-1R5K	1.5		30		85	0.85	370
IC1210-1R8K	1.8		30		80	0.90	350
IC1210-2R2K	2.2		30		75	1.00	320
IC1210-2R7K	2.7		30		70	1.10	290
IC1210-3R3K	3.3		30		60	1.20	260
IC1210-3R9K	3.9		30		55	1.30	250
IC1210-4R7K	4.7		30		50	1.50	220
IC1210-5R6K	5.6		30		47	1.60	200
IC1210-6R8K	6.8		30		43	1.80	180
IC1210-8R2K	8.2		30		40	2.00	170
IC1210-100K	10		30	2.52	36	2.10	150
IC1210-120K	12		30		33	2.50	140
IC1210-150K	15		30		28	2.80	130
IC1210-180K	18		30		25	3.30	120
IC1210-220K	22		30		23	3.70	110
IC1210-270K	27		30		18	5.00	80
IC1210-330K	33		30		17	5.60	70
IC1210-390K	39		30		16	6.40	65
IC1210-470K	47		30		15	7.00	60
IC1210-560K	56		30		13	8.00	55
IC1210-680K	68		30		12	9.00	50
IC1210-820K	82		30		11	10.00	45
IC1210-101K	100		20	0.796	10	11.00	40
IC1210-121K	120		20		10	12.00	70
IC1210-151K	150		20		8	15.00	65
IC1210-181K	180		20		7	17.00	60
IC1210-221K	220		20		7	21.00	50

DIMENSIONS IN MILLIMETERS

- Body length A 3.2 mm \pm 0.2 mm
- Body width B 2.5 mm \pm 0.2 mm
- Body height C 2.2 mm \pm 0.2 mm
- Terminal length D 0.5 mm \pm 0.1 mm
- Terminal width E 1.1 mm \pm 0.3 mm

