



Surface Mount, Molded, Shielded Inductor



P								
STA	NDARD	ELE	CTRIC/	L SPECIF	ICATIO	NS		
IND. (µH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED* DC CURRENT (mA)		
0.010 0.012 0.015 0.018 0.022 0.027 0.033 0.039 0.047 0.056 0.068 0.082	±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20%	50 50 50 45 45 40 40 40 38	55555555555555555555555555555555555555	1000 1000 1000 1000 1000 1000 1000 100	0.10 0.11 0.12 0.13 0.15 0.17 0.18 0.24 0.26 0.28 0.35 0.45	810 750 720 690 640 610 585 530 495 485 475 460		
0.10 0.12 0.15 0.18 0.22 0.27 0.33 0.39 0.47 0.56 0.82 1.0 1.2 1.5	±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±10% ±10% ±10%	36 40 40 40 40 40 40 40 40 40 30 30 30	50 22,22,22,22,22,22,25,55,55,55,55,55,55,5	700 500 470 470 330 310 280 230 220 180 160 120 90.0 85.0	0.50 0.20 0.224 0.30 0.33 0.36 0.44 0.46 0.50 0.60 0.65 0.75 0.85	450 630 600 580 565 500 475 465 460 455 450 400 390 370 350		
2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2	±10% ±10% ±10% ±10% ±10% ±10% ±10%	30 30 30 30 30 30 30 30	7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96	65.0 60.0 60.0 58.0 52.0 50.0 40.0 35.0	0.90 1.00 1.10 1.20 1.25 1.40 1.60 1.65	320 290 270 250 220 210 205 195		
10.0 12.0 15.0 18.0 22.0 27.0 33.0 39.0 47.0 56.0 68.0 82.0	±10% ±10% ±10% ±10% ±10% ±10% ±100% ±10% ±1	30 30 30 30 30 30 30 30 30 30	2.52 2.52 2.52 2.52 2.52 2.52 2.52 2.52	30.0 24.0 20.0 17.0 16.0 14.5 14.5 14.0 13.0 11.5 11.0	2.00 2.30 2.50 2.70 3.10 3.30 5.10 5.90 8.00 10.0 11.0	185 175 165 155 150 125 115 105 100 95 90 85		
100.0	±10%	30	0.796	6.0	12.0	80		

^{*}Rated DC Current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient.

FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481



- Compatible with vapor phase, infrared and wave soldering methods
- Shielded construction minimizes coupling to other components
- 100 % lead (Pb)-free and RoHS compliant

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.01 μH to 100 μH

Inductance Tolerance: $\pm~20~\%$ for 0.01 μH to 0.82 μH $\pm~10~\%$ for 1.0 μH to 100 μH standard. 3 % and 5 % tolerances available

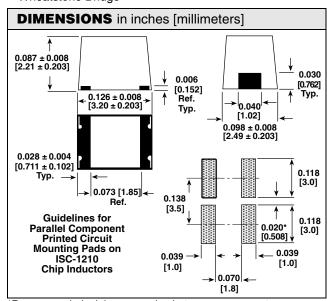
Temperature Range: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.01 μ H to 0.10 μ H

Powdered Iron for 0.12 μH to 100 μH

TEST EQUIPMENT

- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A RF Impedance Analyzer (for SRF measurements)
- · Wheatstone Bridge



*Recommended minimum spacing between components.

PART MARKING

- Dale
- Inductance value
- Date code

DESCRIPTION				
ISC-1210 MODEL		± 10 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD
GLOBAL PART NUM	IBER			
I S C	1 2 1 0	E R	1 0	0 K
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE	VALUE TOL.



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Revision: 18-Jul-08

Document Number: 91000