IMC-1210-100

Vishay Dale

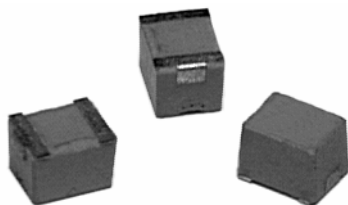# Wirewound, Surface Mount Molded Inductors

STANDARD ELECTRICAL SPECIFICATIONS

IND. (µH)	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz) [1]	DCR MAX. (Ω)	RATED DC CURRENT (mA)
0.010	100	15	2500	0.13	734
0.012	100	17	2300	0.14	707
0.015	100	19	2100	0.16	661
0.018	100	21	1900	0.18	624
0.022	100	23	1700	0.20	592
0.027	100	23	1500	0.22	564
0.033	100	25	1400	0.24	540
0.039	100	25	1300	0.27	530
0.047	100	26	1200	0.30	483
0.056	100	26	1100	0.33	470
0.068	100	27	1000	0.36	450
0.082	100	27	900	0.40	450
0.10	100	28	700	0.44	450

Note
[1] All SRF values above 1000 MHz are typical minimums.

PART MARKING

- Vishay Dale
- Inductance value
- Date code

FEATURES

- Printed marking
- Molded construction provides superior strength and moisture resistance
- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- Compliant to RoHS directive 2002/95/EC

RoHS COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance and Tolerance: ± 20 % for 0.010 µH to 0.100 µH standard.
± 10 % for 0.010 µH to 0.100 µH
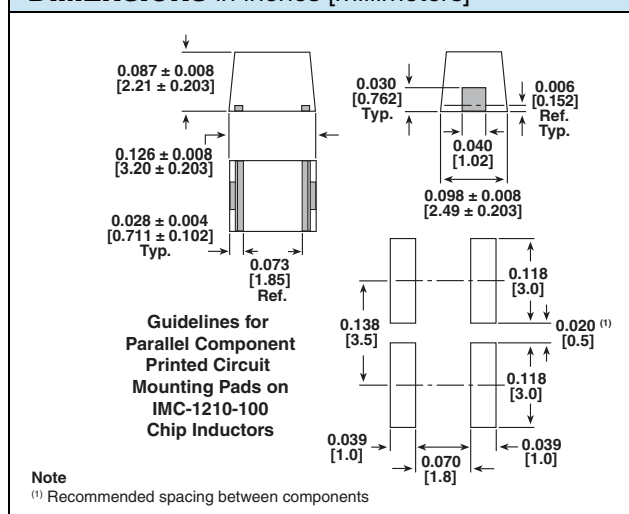± 5 % for 0.027 µH to 0.100 µH optional.
Operating Temperature: - 55 °C to + 125 °C
Core Material: Non-magnetic from 0.010 µH to 0.100 µH

TEST EQUIPMENT

- L, Q, SRF: HP4191A RF impedance analyzer
- DCR: Wheatstone brigde or equivalent

DIMENSIONS in inches [millimeters]

0.087 ± 0.008 [2.21 ± 0.203]
0.126 ± 0.008 [3.20 ± 0.203]
0.028 ± 0.004 [0.711 ± 0.102] Typ.
0.073 [1.85] Ref.
0.030 [0.762] Typ.
0.006 [0.152] Ref. Typ.
0.040 [1.02]
0.098 ± 0.008 [2.49 ± 0.203]
0.118 [3.0]
0.020 [1] [0.5]
0.138 [3.5]
0.118 [3.0]
0.039 [1.0]
0.070 [1.8]
0.039 [1.0]

Guidelines for Parallel Component Printed Circuit Mounting Pads on IMC-1210-100 Chip Inductors

Note
[1] Recommended spacing between components

DESCRIPTION

IMC-1210-100	0.010 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	C	1	2	1	0	E	R	1	0	N	K	1	0	0
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES		

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