

Vishay Dale

High Frequency, Surface Mount, Laser Spiral, Coated Inductors

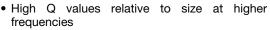


STANDARD ELECTRICAL SPECIFICATIONS								
IND.		TEST FREQ. (MHz)		Q	SRF MIN.	DCR MAX.	RATED DC CURRENT	
(nH)	TOL.	L	Q	MIN.	(MHz)	(Ω)	(mA) ⁽¹⁾	
1.0	0.3 nH, 0.2 nH	100	800	21	6000	0.05	400	
1.2	0.3 nH, 0.2 nH	100	800	21	6000	0.06	400	
1.5	0.3 nH, 0.2 nH	100	800	21	6000	0.07	400	
1.8	0.3 nH, 0.2 nH	100	800	21	6000	0.08	400	
2.2	0.3 nH, 0.2 nH	100	800	21	6000	0.09	400	
2.7	0.3 nH, 0.2 nH	100	800	21	5500	0.10	400	
3.3	0.3 nH, 0.2 nH	100	800	21	5500	0.12	400	
3.9	0.3 nH, 0.2 nH	100	800	20	5200	0.15	360	
4.7	0.3 nH, 0.2 nH	100	800	20	4800	0.17	360	
5.6	0.3 nH, 0.2 nH	100	800	20	4600	0.19	340	
6.8	5 %	100	800	19	4000	0.30	320	
8.2	5 %	100	800	19	3500	0.35	320	
10	5 %, 2 %	100	800	19	2800	0.41	320	
12	5 %, 2 %	100	800	19	2800	0.45	320	
15	5 %, 2 %	100	800	19	2500	0.60	240	
18	5 %, 2 %	100	800	19	2200	0.70	240	
22	5 %, 2 %	100	800	19	2000	0.80	200	
27	5 %, 2 %	100	800	19	1800	1.20	200	
33	5 %, 2 %	100	800	18	1800	1.40	170	
39	5 %, 2 %	100	800	18	1800	1.70	150	
47	5 %, 2 %	100	800	17	1800	2.10	140	
56	5 %, 2 %	100	800	17	1500	2.50	130	
68	5 %, 2 %	100	800	15	1500	4.00	120	
82	5 %, 2 %	100	800	15	1400	4.50	110	
100	5 %, 2 %	100	800	14	1200	5.50	90	

Note

FEATURES

- · Very small size
- High self-resonant frequency values





Coated coil provides protection and moisture resistance

HALOGEN

- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 10 000/reel, EIA-481
- L and Q value not affected by mounting orientation
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 100 nH

Inductance and Tolerance: \pm 0.3 nH for 1.0 nH to 5.6 nH,

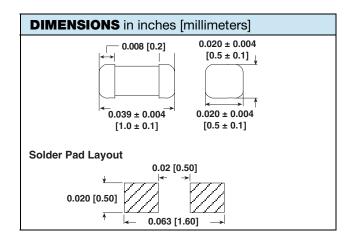
± 5 % for 6.8 nH to 100 nH

Operating Temperature: - 40 °C to + 100 °C

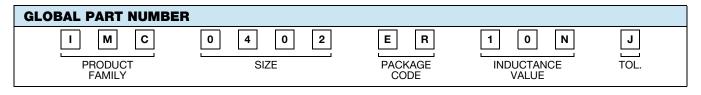
Core Material: Ceramic

TEST EQUIPMENT

- Inductance and Q measured on HP4291B
- SRF measured on HP8753E
- DCR measured on HP4338B



DESCRIPTION									
IMC-0402	10 nH	± 5 %	ER	e3					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD					



 $^{^{(1)}\,}$ Value obtained when current flows and temperature has risen 15 $^{\circ}\text{C}\,$



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Vishay

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