

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 ⁽¹⁾
(nH)	TOL.	L	Q	MIN.	(MHz)	(Ω)	(mA)
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	·		_				

Note

FEATURES

- · Very small size
- High self-resonant frequency values
- High Q values relative to size at higher RoHS requencies
- Coated coil provides protection and moisture resistance
- 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

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 100 nH

Inductance and Tolerance: ± 0.3 nH for 1.0 nH to 5.6 nH,

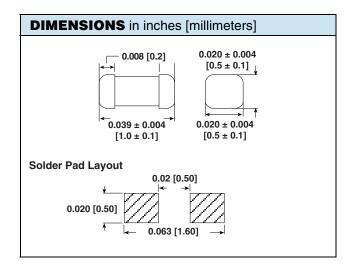
 \pm 5 % for 6.8 nH to 100 nH

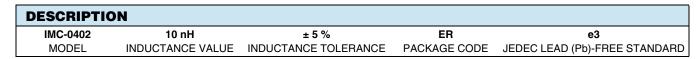
Operating Temperature: - 40 °C to + 100 °C

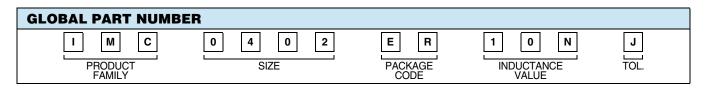
Core Material: Ceramic

TEST EQUIPMENT

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







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



Vishay

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