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Vishay Dale

# High Frequency, Surface Mount, Laser Spiral, Coated Inductors

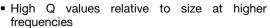


STANDARD ELECTRICAL SPECIFICATIONS											
IND.		TEST FREQ. (MHz)		Q	SRF MIN.	DCR MAX.	RATED DC CURRENT				
(nH)	TOL.	L	Q	MIN.	(MHz)	(Ω)	(mA) <sup>(1)</sup>				
1.0	0.3 nH, 0.2 nH	100	800	21	6000	0.05	400				
1.2	0.3 nH, 0.2 nH	100	800	21	6000	0.06	400				
1.5	0.3 nH, 0.2 nH	100	800	21	6000	0.07	400				
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

COMPLIANT HALOGEN FREE

- 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
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0 nH to 100 nH

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

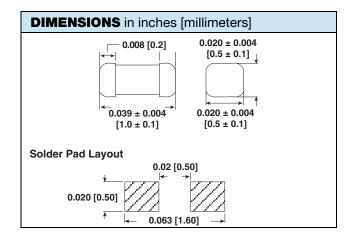
± 5 % for 6.8 nH to 100 nH

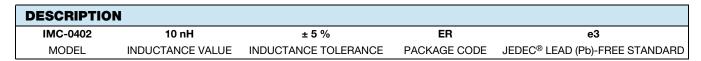
**Operating Temperature:** -40 °C to +100 °C

Core Material: Ceramic

### **TEST EQUIPMENT**

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





GLOBAL PART NUMBER									
PRODUCT FAMILY	0 4 0 2 SIZE	PACKAGE CODE	1 0 N INDUCTANCE VALUE	J TOL.					

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<sup>(1)</sup> Value obtained when current flows and temperature has risen 15 °C



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