

Vishay Dale

COMPLIANT

HALOGEN FREE

# **Wirewound, Surface Mount Inductors**





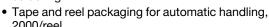


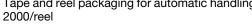


STANDARD ELECTRICAL SPECIFICATIONS											
IND.		TEST FREQ. (MHz)		Q	SRF MIN.	DCR MAX.	RATED DO				
(nH)	TOL.	L	Q	MIN.	(MHz)	(Ω)	(mA)				
2.2	0.3 nH, 0.2 nH		1000	50	6000	0.06	800				
2.7	0.3 nH, 0.2 nH		1000	35	6000	0.08	800				
3.3 3.9	0.3 nH, 0.2 nH 0.3 nH, 0.2 nH		1000 1000	60 60	6000 6000	0.08	800 600				
4.7	0.3 nH, 0.2 nH		1000	60	5800	0.06	600				
5.6	5 %, 2 %	250	1000	60	5800	0.08	600				
6.8	5 %, 2 %	250	1000	60	5500	0.06	600				
8.2	5 %, 2 %	250	1000	60	5500	0.06	600				
10	5 %, 2 %	250	500	60	4800	0.08	600				
12	5 %, 2 %	250	500	60	4100	0.08	600				
15	5 %, 2 %	250	500	60	3600	0.08	600				
18	5 %, 2 %	250	500	60	3400	0.08	600				
22	5 %, 2 %	250	500	60	3300	0.10	600				
27 33	5 %, 2 % 5 %, 2 %	250 250	500 500	60 60	2600 2400	0.12	600 500				
39	5 %, 2 %	250	500	60	2100	0.15	500				
47	5 %, 2 %	200	500	60	1700	0.15	500				
56	5 %, 2 %	200	500	60	1600	0.25	500				
68	5 %, 2 %	200	500	60	1450	0.27	500				
82	5 %, 2 %	150	500	60	1350	0.32	500				
100	5 %, 2 %	150	500	60	1200	0.43	500				
120	5 %, 2 %	150	250	50	1100	0.48	500				
150	5 %, 2 %	100	250	50	950	0.56	400				
180	5 %, 2 %	100	250	50	900	0.78	400				
220 270	5 %, 2 % 5 %, 2 %	100 100	250 250	50 45	860 850	1.00 1.46	400 350				
330	5 %, 2 %	100	250	45	800	1.65	300				
390	5 %, 2 %	100	250	45	780	2.20	210				
470	5 %	25.2	100	45	375	0.95	500				
560	5 %	25.2	100	45	340	1.10	450				
680	5 %	25.2	100	35	188	1.20	400				
820	5 %	25.2	100	35	215	1.50	300				
1000	5 %	25.2	50	35	200	2.13	180				
1200	5 %	7.96		15	200	2.60	150				
1500 1800	5 % 5 %	7.96 7.96	7.96 7.96	15 15	200 120	2.90	130 120				
2200	5 %	7.96	7.96	15	110	3.10	110				
2700	5 %	7.96	7.96	15	100	3.50	100				
3300	5 %	7.96	7.96	15	70	2.30	210				
3900	5 %	7.96	7.96	15	60	2.50	200				
4700	5 %	7.96		15	50	2.80	180				
5600	5 %	7.96	7.96	15	45	3.00	160				
6800	5 %	7.96	7.96	15	45	3.20	130				
8200	5 %	7.96		15	40	3.50	120				
10 000	5 %	2.52	2.52	10	40	5.00	80				

### **FEATURES**

- · High self-resonant frequency values
- High Q values at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering





- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 2.2 nH to 10 000 nH

Inductance and Tolerance: 0.3 nH for 2.2 nH to 4.7 nH,

± 5 % for 5.6 nH to 10 000 nH

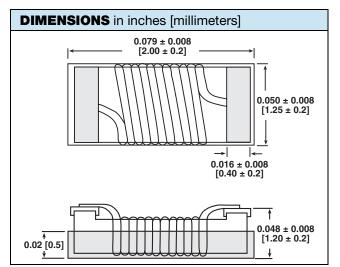
Operating Temperature: - 40 °C to + 125 °C

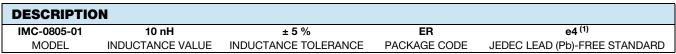
Core Material: Ceramic from 2.2 nH to 390 nH; Ferrite from

470 nH to 10 000 nH

### **TEST EQUIPMENT**

- Inductance and Q measured on HP4286A (2.2 nH to 390 nH) and HP4285A (470 nH to 10 000 nH)
- SRF is measured on HP8753E
- DCR ismeasured on HP4338B



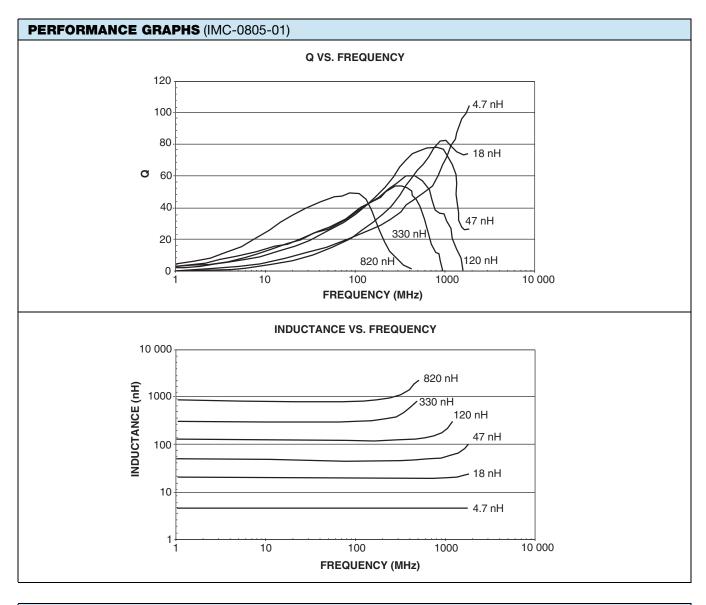


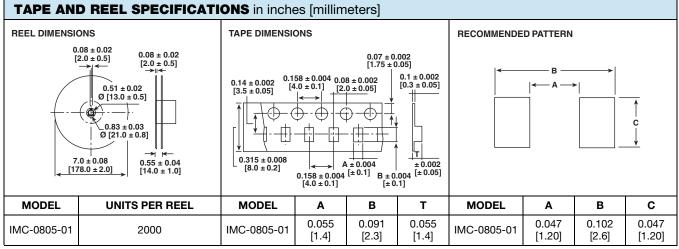
(1) For parts within 2.2 nH to 390 nH please use e4 for JEDEC lead (Pb)-free standard. For parts within 470 nH to 10 000 nH please use e3 for JEDEC lead (Pb)-free standard.

GLOBAL PART NUMBER											
PRODUCT FAMILY	0 8 0 5 SIZE	PACKAGE CODE	1 0 N INDUCTANCE VALUE	J TOL.	0 1 SERIES						

## Wirewound, Surface Mount Inductors









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Vishay

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