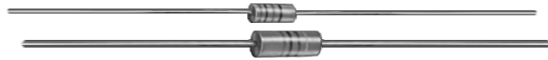




Inductors

Medium Current



FEATURES

- Wide inductance range in small package.
- Flame retardant coating.
- Epoxy molded construction provides superior moisture protection.
- Superior electrical specifications. High Q and self resonant frequency, low DC resistance, high rated DC current.

STANDARD ELECTRICAL SPECIFICATIONS

IND. (μH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
0.22	± 20%	55	25.0	360.0	0.024	2380
0.27	± 20%	55	25.0	340.0	0.026	2210
0.33	± 20%	55	25.0	320.0	0.030	2070
0.39	± 20%	55	25.0	260.0	0.033	2000
0.47	± 20%	55	25.0	200.0	0.036	1910
0.56	± 20%	55	25.0	195.0	0.040	1860
0.68	± 20%	55	25.0	190.0	0.043	1810
0.82	± 20%	55	25.0	175.0	0.048	1730
1.0	± 10%	55	25.0	160.0	0.053	1650
1.2	± 10%	65	7.9	145.0	0.058	1570
1.5	± 10%	65	7.9	125.0	0.067	1490
1.8	± 10%	65	7.9	95.0	0.075	1430
2.2	± 10%	65	7.9	85.0	0.083	1370
2.7	± 10%	65	7.9	47.0	0.095	1300
3.3	± 10%	65	7.9	45.0	0.100	1230
3.9	± 10%	55	7.9	35.0	0.110	1210
4.7	± 10%	55	7.9	30.0	0.120	1190
5.6	± 10%	55	7.9	26.0	0.135	1100
6.8	± 10%	55	7.9	24.0	0.155	1020
8.2	± 10%	45	7.9	22.0	0.165	975
10.0	± 10%	45	7.9	20.0	0.175	940
12.0	± 10%	55	2.5	32.0	0.320	775
15.0	± 10%	55	2.5	32.0	0.390	645
18.0	± 10%	55	2.5	23.0	0.475	625
22.0	± 10%	55	2.5	23.0	0.565	600
27.0	± 10%	55	2.5	20.0	0.650	560
33.0	± 10%	55	2.5	20.0	0.720	520
39.0	± 10%	45	2.5	19.0	0.780	495
47.0	± 10%	45	2.5	19.0	0.830	465
56.0	± 10%	45	2.5	14.0	0.900	450
68.0	± 10%	45	2.5	14.0	0.980	440
82.0	± 10%	30	2.5	4.5	1.07	420
100.0	± 10%	30	2.5	4.5	1.15	400
120.0	± 10%	55	0.79	4.0	1.45	365
150.0	± 10%	55	0.79	3.4	1.66	340
180.0	± 10%	60	0.79	8.5	2.80	240
220.0	± 10%	60	0.79	8.2	3.10	235
270.0	± 10%	60	0.79	5.8	3.15	230
330.0	± 10%	60	0.79	5.5	4.30	205
390.0	± 10%	60	0.79	5.1	4.40	190
470.0	± 10%	60	0.79	2.1	4.50	185

MARKING

- Vishay Dale
- Inductance value
- Date code

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 5%, ± 10%, ± 20%. Other tolerances available on request.

Insulation Resistance: 1000 Megohm per MIL-STD-202, Method 302, Test Condition B.

Operating Temperature: - 55°C to + 105°C (no load); - 55°C to + 80°C (at full rated current).

MECHANICAL SPECIFICATIONS

Terminal Strength: 5 pounds pull per MIL-STD-202, Method 211, Test Condition A.

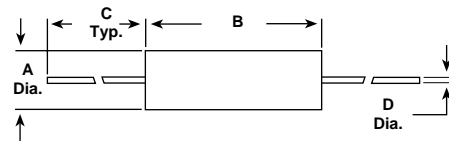
MATERIAL SPECIFICATIONS

Core: Ferrite.

Encapsulant: Epoxy.

Terminals: Tinned copper, standard.

DIMENSIONS in inches [millimeters]



MODEL		A (Dia.)	B	C (Typ.)	D (Dia.)
IM-6-38	Maximum	0.200 [5.08]	0.450 [11.43]	1.63 [41.40]	0.027 [0.686]
	Minimum	0.180 [4.57]	0.430 [10.92]	1.25 [31.75]	0.023 [0.584]

ENVIRONMENTAL PERFORMANCE

TEST	CONDITIONS	SPECIFICATIONS
Flammability	—	MIL-STD-202, Method 111
Resistance to Soldering Heat	Test Condition A	MIL-STD-202, Method 210
Resistance to Solvents	—	MIL-STD-202, Method 215

ORDERING INFORMATION

IM-6-38	3.9μH	± 10%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE