

Inductors

High Current, Surface Mount



FEATURES

- Flame retardant encapsulant (UL 94V-0).
- Completely encapsulated winding provides superior environmental protection and moisture resistance.
- High current unit in surface mount package printed with model, inductance value and date code.
- Compatible with infrared or conventional reflow soldering methods.
- Pick and place compatible.
- Tape and reel packaging for automatic handling.

STANDARD ELECTRICAL SPECIFICATIONS

IND. @ 1kHz (μ H)	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)
1.0	0.013	8.6	4.1
1.2	0.018	7.6	3.8
1.5	0.02	6.9	3.5
1.8	0.021	6.5	3.2
2.2	0.029	5.7	2.9
2.7	0.034	5.1	2.6
3.3	0.038	4.6	2.4
3.9	0.042	4.3	2.2
4.7	0.047	4.0	2.0
5.6	0.051	3.8	1.9
6.8	0.058	3.5	1.7
8.2	0.063	3.3	1.5
10.0	0.071	3.1	1.4
12.0	0.079	2.7	1.3
15.0	0.089	2.3	1.2
18.0	0.119	1.9	1.1
22.0	0.152	1.7	1.02
27.0	0.179	1.6	0.95
33.0	0.222	1.3	0.88
39.0	0.315	1.19	0.8
47.0	0.362	1.07	0.74
56.0	0.397	0.95	0.68
68.0	0.446	0.87	0.62
82.0	0.604	0.8	0.56
100.0	0.672	0.73	0.5
120.0	0.735	0.66	0.45
150.0	0.998	0.58	0.4
180.0	1.37	0.5	0.35
220.0	1.58	0.46	0.32
270.0	1.77	0.41	0.3
330.0	2.51	0.37	0.28
390.0	2.73	0.34	0.26
470.0	3.36	0.32	0.24
560.0	3.75	0.3	0.23
680.0	4.31	0.28	0.2
820.0	6.04	0.26	0.17
1000.0	6.9	0.24	0.15

APPLICATIONS

Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR and Triac controls and RFI suppression.

ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1 volt with no DC current.

Inductance Tolerance: $\pm 15\%$.

Incremental Current: The typical current at which the inductance will be decreased by 5% from its initial zero DC value.

Operating Temperature: - 55°C to + 125°C (no load);
- 55°C to + 85°C (at full rated current).

MATERIAL SPECIFICATIONS

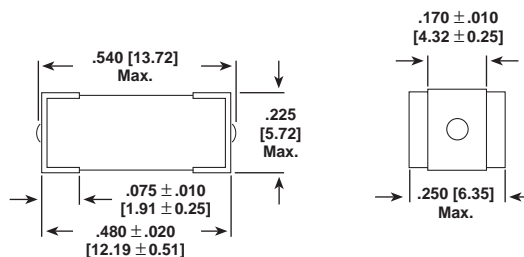
Core: High resistivity ferrite core.

Encapsulant: Epoxy.

Terminals: 60/40 solder coated copper.

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



PART MARKING

- Model
- Inductance value
- Date code

HOW TO ORDER

IHSM-4825	3.9μH	$\pm 15\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE