

High Current, Surface Mount Inductors - Wirewound Molded



STANDARD ELECTRICAL SPECIFICATIONS						
IND. AT 1 kHz	DCR MAX.	RATED CURRENT MAX.	INCREMENTAL CURRENT APPROX.			
(µH)	(Ω)	(A)	(A)			
1.0	0.011	9.0	5.3			
1.2	0.012	8.8	4.8			
1.5	0.012	8.6	4.4			
1.8	0.013	8.5	4.0			
2.2	0.014	8.4	3.6			
2.7	0.016	8.2	3.2			
3.3	0.017	8.1	2.8			
3.9	0.02	7.3	2.6			
4.7	0.023	6.7	2.4			
5.6	0.025	6.0	2.3 2.1			
6.8	0.028	5.6				
8.2	0.032	5.3	1.9			
10.0	0.036	5.0	1.7			
12.0 15.0	0.04 0.043	4.8 4.5	1.5 1.4			
18.0	0.043	4.5	1.3			
22.0	0.047	3.8	1.2			
27.0	0.074	3.4	1.1			
33.0	0.084	3.0	0.99			
39.0	0.095	2.8	0.93			
47.0	0.12	2.6	0.87			
56.0	0.14	2.4	0.82			
68.0	0.16	2.1	0.76			
82.0	0.184	1.9	0.72			
100.0	0.226	1.7	0.68			
120.0	0.305	1.5	0.61			
150.0	0.362	1.4	0.54			
180.0	0.399	1.3	0.48			
220.0	0.536	1.1	0.44			
270.0	0.599	0.95	0.4			
330.0	0.714	0.86	0.36			
390.0 470.0	0.819 1.1	0.8 0.74	0.33			
560.0	1.1	0.74	0.31 0.29			
680.0	1.58	0.63	0.29			
820.0	2.08	0.573	0.26 0.23			
1000.0	2.42	0.51	0.21			
1200.0	2.68	0.46	0.19			
1500.0	3.15	0.4	0.17			
1800.0	4.2	0.34	0.15			
2200.0	4.62	0.31	0.135			
2700.0	6.3	0.29	0.12			
3300.0	7.09	0.27	0.11			
3900.0	9.14	0.25	0.1			
4700.0	10.6	0.23	0.09			
5600.0	11.8	0.21	0.08			
6800.0	15.8	0.19	0.0775			
8200.0	21.8	0.17	0.0725			
10 000.0 12 000.0	24.6 28.4	0.16 0.14	0.07 0.0625			
15 000.0	37.8	0.14	0.055			
18 000.0	44.1	0.12	0.05			
10 000.0	44.1	0.11	0.05			

FEATURES

- Flame retardant encapsulant (UL 94 V-0)
- Completely encapsulated winding provides superior environmental protection and moisture resistance



RoHS

- High current unit in surface mount package compliant printed with model, inductance value and date code
- code

 Compatible with infrared or conventional reflow soldering
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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 V with no DC current

Inductance Tolerance: ± 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);

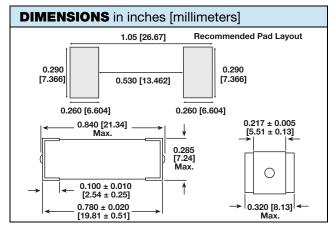
-55 °C to +85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



PART MARKING - Model - Inductance value - Date code

DESCRIPTION							
IHSM-7832	3.9 µH	± 15 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			
GLOBAL PART NUMBER							
	H S M	7 8 3 2	E R	3 R 9 L			
PRO	DDUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE TOL. VALUE			



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