

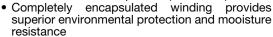
High Current, Surface Mount Inductors - Wirewound Molded



STANDARD ELECTRICAL SPECIFICATIONS							
IND. AT	DCR MAX.	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)				
(µH)	(Ω)	, ,	, ,				
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				
6.8	0.028	5.6	2.1				
8.2	0.032	5.3	1.9				
10.0	0.036	5.0	1.7				
12.0	0.04	4.8	1.5				
15.0	0.043	4.5 4.2	1.4				
18.0 22.0	0.047 0.054	3.8	1.3 1.2				
27.0	0.054	3.4	1.2				
33.0	0.074	3.4	0.99				
39.0	0.064	3.0 2.8	0.99				
47.0	0.095	2.6	0.93				
56.0	0.12	2.6	0.82				
68.0	0.14	2.4	0.82				
82.0	0.184	1.9	0.76				
100.0	0.164	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	0.819	0.8	0.33				
470.0	1.1	0.74	0.31				
560.0	1.2	0.68	0.29				
680.0	1.58	0.63	0.26				
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	24.6	0.16	0.07				
12 000.0	28.4	0.14	0.0625				
15 000.0	37.8	0.12	0.055				
18 000.0	44.1	0.11	0.05				

FEATURES

Flame retardant encapsulant (UL 94 V-0)





RoHS

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

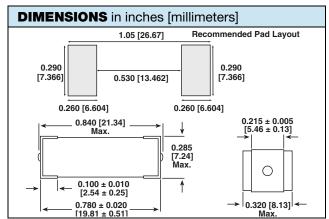
-55 °C to +85 °C (at full rated current)

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						
PRC	H S M	7 8 3 2 SIZE	PACKAGE CODE	3 R 9 L INDUCTANCE TOL. VALUE		



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