

## **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 <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

### **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);

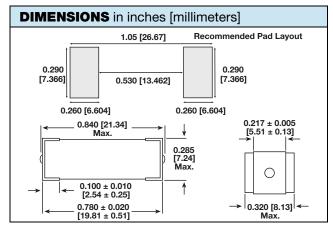
-55 °C to +85 °C (at full rated current)

### **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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## Vishay:

 IHSM7832RG331L
 IHSM7832PJ3R3L
 IHSM7832RG330L
 IHSM7832PJ822L
 IHSM7832RG100K

 IHSM7832RG123L
 IHSM7832PJ470L
 IHSM-7832 100 15%
 IHSM-7832 3.3 15%
 IHSM-7832 8.2K 15%TR

 IHSM7832ER472L
 IHSM7832RE560L
 IHSM7832ER101L
 IHSM7832ER331L
 IHSM-7832 270 15%TR

 IHSM7832RE220L
 IHSM7832RG1R5L
 IHSM7832RG101L
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 IHSM7832RG6R8L

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 IHSM7832PJ222L
 IHSM7832RG100L
 IHSM7832PJ150L

 IHSM7832PJ182L
 IHSM7832RG470L
 IHSM-7832 33 15%
 IHSM7832ER100L
 IHSM7832ER150L
 IHSM7832RG271L

 IHSM7832ER822L
 IHSM7832ER103L
 IHSM7832PJ330L
 IHSM7832ER153L
 IHSM7832RG271L