

IHSM7832EB331L Datasheet



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

IHSM7832EB331L-DG

Vishay Dale

IHSM7832EB331L

FIXED IND 330UH 860MA 714MOHM SM

330 µH Unshielded Inductor 860 mA 714mOhm Ma x Nonstandard

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer:
Vishay Dale
Product Status:
Active
Material - Core:
Ferrite
Tolerance:
±15%
Current - Saturation (Isat):
360mA
DC Resistance (DCR):
714mOhm Max
Frequency - Self Resonant:
Operating Temperature:
-55°C ~ 125°C
Mounting Type:
Surface Mount
Supplier Device Package:
-
Height - Seated (Max):
0.285" (7.24mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

IHSM-7832



www.vishay.com

Vishay Dale

High Current, Surface Mount Inductors - Wirewound Molded



STANDARD ELECTRICAL SPECIFICATIONS					
IND. AT 1 kHz (µH)	DCR MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (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		
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	1.4		
18.0	0.047	4.2	1.3		
22.0	0.054	3.8	1.2		
27.0	0.074	3.4	1.1		
33.0 39.0	0.084	3.0 2.8	0.99 0.93		
47.0	0.095				
<u>47.0</u> 56.0	0.12	2.6 2.4	0.87		
68.0	0.14	2.4	0.82		
82.0	0.18	1.9	0.78		
100.0	0.184	1.5	0.68		
120.0	0.220	1.5	0.61		
150.0	0.362	1.3	0.54		
180.0	0.399	1.4	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	0.23		
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)



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

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 %

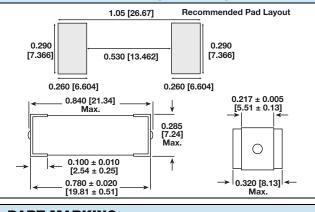
Incremental Current: The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

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

MECHANICAL SPECIFICATIONS

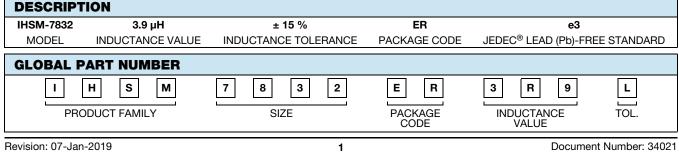
Core: High resistivity ferrite core Encapsulant: Epoxy Terminals: 100 % Sn over Ni

DIMENSIONS in inches [millimeters]



PART MARKING

- Model
- Inductance value
- Date code



For technical questions, contact: magnetics@vishay.com

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