

IHSM4825ER102L Datasheet



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DiGi Electronics Part Number IHSM4825ER102L-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHSM4825ER102L

Description FIXED IND 1MH 240MA 6.9 OHM SMD

Detailed Description 1 mH Unshielded Inductor 240 mA 6.90hm Max No

nstandard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHSM4825ER102L	Vishay Dale
Series:	Product Status:
IHSM-4825	Active
Type:	Material - Core:
	Ferrite
Inductance:	Tolerance:
1 mH	±15%
Current Rating (Amps):	Current - Saturation (Isat):
240 mA	150mA
Shielding:	DC Resistance (DCR):
Unshielded	6.90hm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
1 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.540" L x 0.250" W (13.72mm x 6.35mm)	0.225" (5.72mm)

Environmental & Export classification

8504.50.4000

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



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Vishay Dale

High Current, Surface Mount Inductors - Wirewound Molded





IND. AT 1 kHz	DCR MAX.	RATED CURRENT MAX.	INCREMENTAL CURRENT APPROX
(µH)	(Ω)	(A)	(A)
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

PRODUCT FAMILY

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
- Tape and reel packaging for automatic handling
- 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.

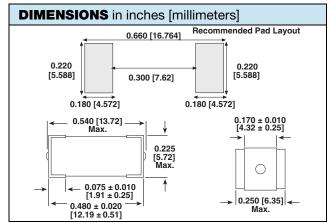
Operating Temperature: -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



INDUCTANCE

VALUE

TOL.

PART MARKING

- Model
- Inductance value

PACKAGE

CODE

- Date code

DESCRIPTION							
IHSM-4825 MODEL	3.9 μ H INDUCTANCE VALUE	± 15 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD			
GLOBAL PART NUMBER							
1	H S M	4 8 2 5	E R	3 R 9 L			

Revision: 20-Sep-13 Document Number: 34019

SIZE



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