

Vishay Dale

High Current, Surface Mount Inductors





DCR		PECIFICATIONS
MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX (A)
0.010		6.2
0.011		5.6
0.012	8.7	5.0
0.013	8.6	4.4
0.015	8.5	4.0
0.017	8.4	3.7
0.020	8.3	3.4
0.021	7.9	3.1
0.023	7.4	2.8
0.024	7.0	2.6
0.038	6.1	2.3
0.047	5.1	2.0
0.053	4.3	1.8
0.068	3.9	1.7
0.078	3.5	1.6
0.083	3.2	1.5
0.12	2.8	1.3
0.14	2.3	1.2
0.17	1.9	1.1
0.19	1.8	1.03
0.215	1.77	0.93
0.236	1.71	0.90
		0.82
0.357	1.14	0.75
		0.68
	0.88	0.63
0.609	0.82	0.58
0.809	0.75	0.54
		0.48
1.27	0.64	0.43
1.42	0.59	0.38
1.89	0.54	0.34
2.21	0.49	0.31
2.42	0.46	0.28
2.73	0.43	0.25
3.78	0.40	0.23
4.20	0.37	0.21
5.51	0.32	0.19
7.35	0.29	0.17
8.66	0.25	0.16
9.71	0.22	0.14
11.29	0.20	0.13
15.60	0.18	0.12
20.74	0.16	0.11
23.10	0.14	0.10
	0.012 0.013 0.015 0.017 0.020 0.021 0.023 0.024 0.038 0.047 0.053 0.068 0.078 0.083 0.12 0.14 0.17 0.19 0.215 0.236 0.305 0.305 0.357 0.452 0.452 0.452 0.452 0.530 0.609 0.809 1.10 1.27 1.42 1.89 2.21 2.42 2.73 3.78 4.20 5.51 7.35 8.66 9.71 11.29 15.60 20.74	0.011 8.8 0.012 8.7 0.013 8.6 0.015 8.5 0.017 8.4 0.020 8.3 0.021 7.9 0.023 7.4 0.024 7.0 0.038 6.1 0.047 5.1 0.053 4.3 0.068 3.9 0.078 3.5 0.083 3.2 0.12 2.8 0.14 2.3 0.17 1.9 0.19 1.8 0.215 1.77 0.236 1.71 0.305 1.43 0.357 1.14 0.452 0.95 0.530 0.88 0.609 0.82 0.809 0.75 1.10 0.69 1.27 0.64 1.42 0.59 1.89 0.54 2.21 0.49 2.4

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 printed with model, inductance value and date code
- code
 Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC

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

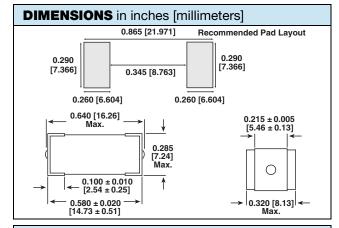
Operating Temperature: - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



PART MARKING

- Model
- Inductance value
- Date code

DESCRIPTION					
IHSM-5832	3.9 µH	± 15 %	ER	e3	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD	



Contact factory for values above 47 000 µH



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Vishay

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