

IHSM5832PJ8R2L Datasheet



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DiGi Electronics Part Number IHSM5832PJ8R2L-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHSM5832PJ8R2L

Description FIXED IND 8.2UH 5.1A 47 MOHM SMD

Detailed Description 8.2 µH Unshielded Inductor 5.1 A 47mOhm Max No

nstandard



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHSM5832PJ8R2L	Vishay Dale
Series:	Product Status:
IHSM-5832	Active
Type:	Material - Core:
	Ferrite
Inductance:	Tolerance:
8.2 µH	±15%
Current Rating (Amps):	Current - Saturation (Isat):
5.1 A	2A
Shielding:	DC Resistance (DCR):
Unshielded	47mOhm 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):
0.640" L x 0.320" W (16.26mm x 8.13mm)	0.285" (7.24mm)

Environmental & Export classification

8504.50.4000

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



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High Current, Encapsulated Surface-Mount Ferrite Inductors





STANDARD E	LECTF	RICAL	SPECIFI	CATIONS
PART NUMBER	L ₀ IND. ± 15 % AT 0 A (μH)	DCR MAX. (Ω)	HEAT RATING CURRENT DC MAX. (A)	SATURATION CURRENT DC (A) (1)
IHSM5832ER1R0L	1.0	0.01	9.0	6.2
IHSM5832ER1R2L	1.2	0.011	8.8	5.6
IHSM5832ER1R5L	1.5	0.012	8.7	5.0
IHSM5832ER1R8L	1.8	0.013	8.6	4.4
IHSM5832ER2R2L	2.2	0.015	8.5	4.0
IHSM5832ER2R7L	2.7	0.017	8.4	3.7
IHSM5832ER3R3L	3.3	0.02	8.3	3.4
IHSM5832ER3R9L	3.9	0.021	7.9	3.1
IHSM5832ER4R7L	4.7	0.023	7.4	2.8
IHSM5832ER5R6L	5.6	0.024	7.0	2.6
IHSM5832ER6R8L	6.8	0.038	6.1	2.3
IHSM5832ER8R2L	8.2	0.047	5.1	2.0
IHSM5832ER100L	10	0.053	4.3	1.8
IHSM5832ER120L	12	0.068	3.9	1.7
IHSM5832ER150L	15	0.078	3.5	1.6
IHSM5832ER180L	18	0.083	3.2	1.5
IHSM5832ER220L	22	0.12	2.8	1.3
IHSM5832ER270L	27	0.14	2.3	1.2
IHSM5832ER330L	33	0.17	1.9	1.1
IHSM5832ER390L	39	0.19	1.8	1.0
IHSM5832ER470L	47	0.215	1.8	0.9
IHSM5832ER560L	56	0.236	1.71	0.9
IHSM5832ER680L	68	0.305	1.43	0.82
IHSM5832ER820L	82	0.357	1.14	0.75
IHSM5832ER101L	100	0.452	0.95	0.68
IHSM5832ER121L	120	0.53	0.88	0.63
IHSM5832ER151L	150	0.609	0.82	0.58
IHSM5832ER181L	180	0.809	0.75	0.54
IHSM5832ER221L	220	1.1	0.69	0.48
IHSM5832ER271L	270	1.27	0.64	0.43
IHSM5832ER331L	330	1.42	0.59	0.38
IHSM5832ER391L	390	1.89	0.54	0.34
IHSM5832ER471L	470	2.21	0.49	0.31
IHSM5832ER561L	560	2.42	0.46	0.28
IHSM5832ER681L	680	2.73	0.43	0.25
IHSM5832ER821L	820	3.78	0.4	0.23
IHSM5832ER102L	1000	4.2	0.37	0.21
IHSM5832ER122L	1200	5.51	0.32	0.19
IHSM5832ER152L	1500	7.35	0.29	0.17
IHSM5832ER182L	1800	8.66	0.25	0.16
IHSM5832ER222L	2200	9.71	0.22	0.14
IHSM5832ER272L	2700	11.29	0.2	0.13
IHSM5832ER332L	3300	15.6	0.18	0.12
IHSM5832ER392L	3900	20.74	0.16	0.11
IHSM5832ER472L	4700	23.1	0.14	0.1

Notes

- All test data is referenced to 25 °C ambient
- Test condition: 1 kHz, 1 V
- Operating temperature range -55 °C to +125 °C
- (1) DC current (A) that will cause L₀ to drop approximately 5 %

FEATURES

 Wirewound ferrite core with flame retardant epoxy encapsulant (UL 94 V-0)



 Superior environmental protection and moisture RoHS resistance

- Tin-lead (SnPb) terminations available (see package code options)
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

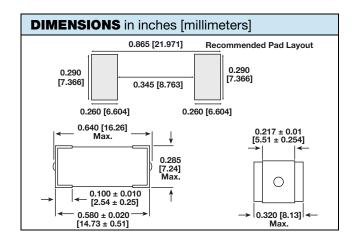
Power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR, and triac controls and RFI suppression.

MECHANICAL SPECIFICATIONS

Core: high resistivity ferrite core

Encapsulant: epoxy

Terminals: 100 % Sn over Ni



PART MARKING

- Model
- Inductance value
- Date code

PACKAGE CODE OPTIONS

- **ER** = pure tin terminal plating (RoHS-compliant) with tape and reel packaging
- **EB** = pure tin terminal plating (RoHS-compliant) with bulk packaging
- RF = tin-lead terminal plating (non-RoHS) with tape and reel packaging
- PJ = tin-lead terminal plating (non-RoHS) with bulk packaging



IHSM-5832

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

GLOBAL PART NUMBER				
PRODUCT FAMILY	5 8 3 2 SIZE	PACKAGE CODE	R 9 INDUCTANCE VALUE	TOL.



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