

IHLW4040CFERR56M11 Datasheet



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DiGi Electronics Part Number IHLW4040CFERR56M11-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLW4040CFERR56M11

Description FIXED IND 560NH 30.5A 1.81 MOHM

Detailed Description 560 nH Shielded Inductor 30.5 A 1.81mOhm Max N

onstandard



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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLW4040CFERR56M11	Vishay Dale
Series:	Product Status:
IHLW-4040CF-11	Active
Type:	Material - Core:
Inductance:	Tolerance:
560 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
30.5 A	23A
Shielding:	DC Resistance (DCR):
Shielded	1.81mOhm Max
Q @ Freq:	Frequency - Self Resonant:
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.400" L x 0.400" W (10.16mm x 10.16mm)	0.142" (3.60mm)

Environmental & Export classification

8504.50.4000

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





www.vishay.com

Vishay Dale

RoHS

FREE

Low Profile, High Current Inductor - Winged Terminals





LINKS TO ADDITIONAL RESOURCES





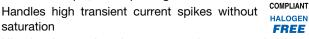
STANDARD ELECTRICAL SPECIFICATIONS					
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)	
0.10	0.70	0.80	46	48	
0.15	0.75	0.85	55	38	
0.22	0.83	0.90	35.5	36	
0.33	1.09	1.18	33.5	26	
0.47	1.60	1.69	31	22	
0.56	1.71	1.81	30.5	23	
0.68	2.05	2.16	29	20	
0.82	2.46	2.60	24	19	
1.0	2.67	2.82	24	18	
1.5	4.20	4.43	20	14.5	
2.2	6.83	7.21	16	14	

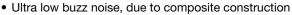
Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 50 V DC current (A) that will cause an approximate ΔT of 40 °C DC current (A) that will cause L₀ to drop approximately 20 %

FEATURES

- Shielded construction
- Frequency range up to 1.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without

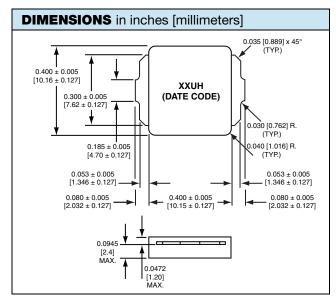


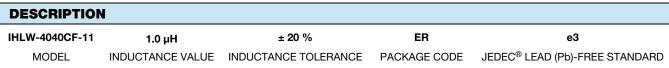


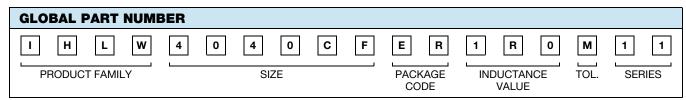
- IHLP design; PATENT(S): www.vishav.com/patents
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

- PDA / notebook / desktop / server applications
- · High current POL converters
- · Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)







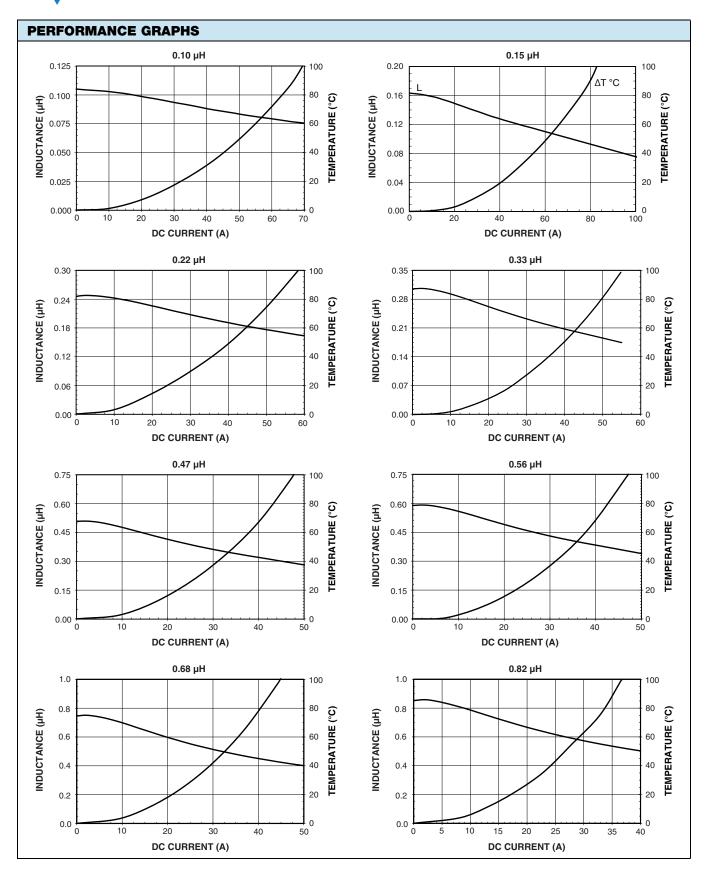
PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.



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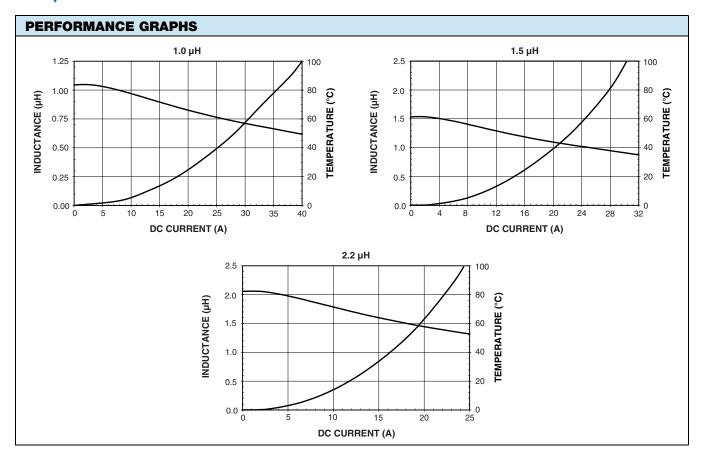




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