

IFSC1008ABER6R8M01 Datasheet



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DiGi Electronics Part Number	IFSC1008ABER6R8M01-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IFSC1008ABER6R8M01
Description	FIXED IND 6.8UH 1A 370 MOHM SMD
Detailed Description	6.8 μ H Shielded Inductor 900 mA 370mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

IFSC1008ABER6R8M01

Series:

IFSC-1008AB

Type:

-

Inductance:

6.8 μ H

Current Rating (Amps):

900 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.047" (1.20mm)

Manufacturer:

Vishay Dale

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

1.04A

DC Resistance (DCR):

370mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-55°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.098" L x 0.079" W (2.50mm x 2.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

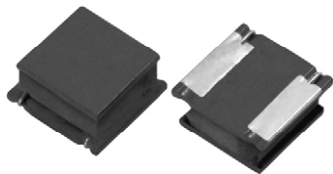
1 (Unlimited)

ECCN:

EAR99



Low Profile, High Current Inductors



FEATURES

- Shielded construction
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without saturation
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

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)

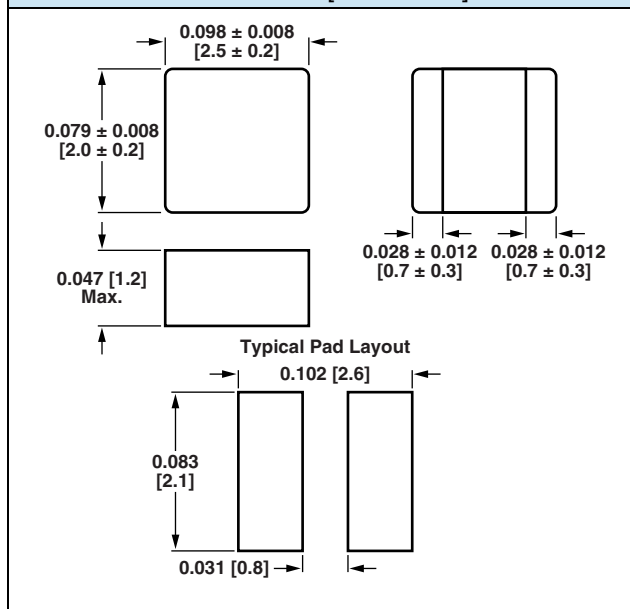
STANDARD ELECTRICAL SPECIFICATIONS

L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC I _{DC} (A) ⁽³⁾		SATURATION CURRENT DC I _{SAT} (A) ⁽⁴⁾	
	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
0.47	24	28.5	3.70	3.35	3.90	3.50
1.0	37	43.0	2.65	2.40	2.75	2.50
1.5	63	72.0	2.30	2.07	2.35	2.12
2.2	80	90.0	1.90	1.80	2.15	1.95
3.3	140	155	1.50	1.35	1.70	1.60
4.7	185	210	1.40	1.25	1.50	1.40
6.8	325	370	1.00	0.90	1.15	1.04
10	359	409	0.90	0.81	0.87	0.80
22	900	1050	0.52	0.46	0.56	0.50

Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L₀ to drop approximately 30 %
- (5) 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

DIMENSIONS in inches [millimeters]



DESCRIPTION					
IFSC-1008AB-01	4.7 μH	± 20 %	ER	e3	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD	

GLOBAL PART NUMBER																	
I	F	S	C	1	0	0	8	A	B	E	R	4	R	7	M	0	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES			



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