IFSC1008ABER100M01 Datasheet

https://www.DiGi-Electronics.com

DiGi Electronics Part Number	IFSC1008ABER100M01-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IFSC1008ABER100M01
Description	FIXED IND 10UH 750MA 410MOHM SMD
Detailed Description	10 µH Shielded Inductor 810 mA 409mOhm Max Nonstandard

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IFSC1008ABER100M01	Vishay Dale
Series:	Product Status:
IFSC-1008AB	Active
Type:	Material - Core:
-	-
Inductance:	Tolerance:
10 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
810 mA	800mA
Shielding:	DC Resistance (DCR):
Shielded	409mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Features:
100 kHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.098" L x 0.079" W (2.50mm x 2.00mm)
Height - Seated (Max):	
0.047" (1.20mm)	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

VISHAY

www.vishay.com

IFSC-1008AB-01

Vishay Dale

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

Pb-free

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

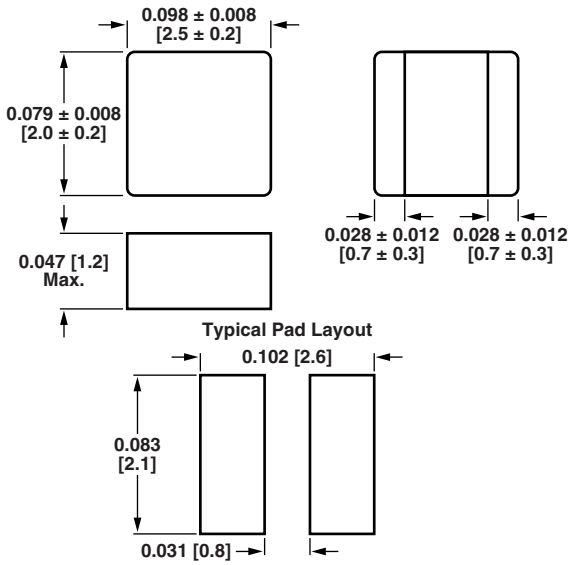
(2) Operating temperature range -55 °C to +125 °C

(3) DC current (A) that will cause an approximate ΔT of 40 °C

(4) DC current (A) that will cause L_0 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	

www.vishay.com

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Vishay

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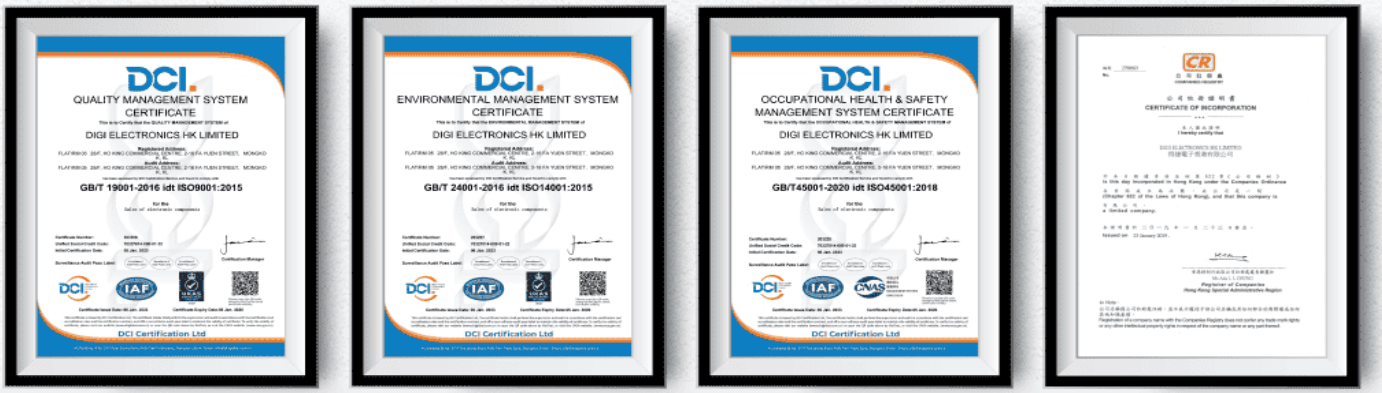

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