

## Low Profile, High Current Inductors



### FEATURES

- Frequency range up to 5 MHz
- Ferrite core with polyurethane enameled copper wire
- Epoxy resin used for adhesive
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS  
COMPLIANT**

### APPLICATIONS

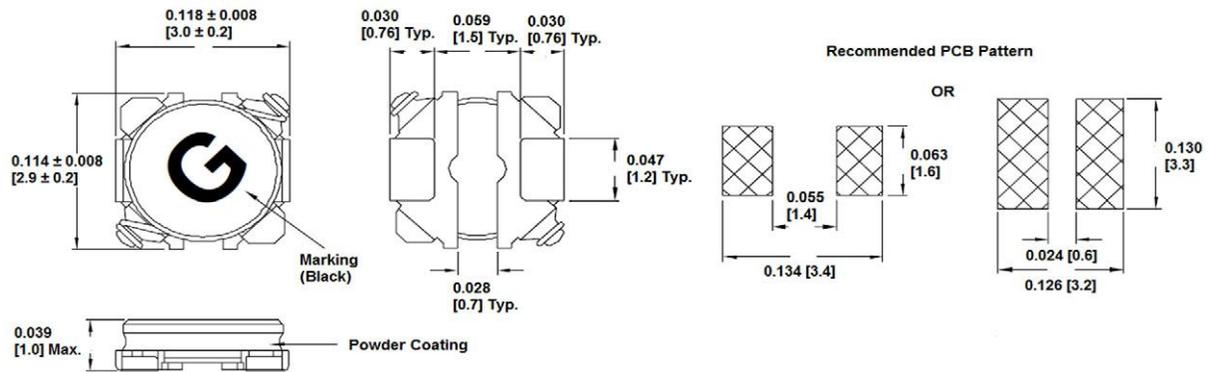
- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L <sub>0</sub> INDUCTANCE AT 100 kHz, 1 V, 0 A (μH)	TOLERANCE (%)	DCR NOM. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>	MARKING
IFL1212AZER1R0N	1.0	30%	64	77	1.70	1.50	A
IFL1212AZER1R2N	1.2	30%	72	86	1.60	1.30	B
IFL1212AZER1R5N	1.5	30%	86	103	1.45	1.10	C
IFL1212AZER2R2N	2.2	30%	120	144	1.25	0.95	E
IFL1212AZER3R3N	3.3	30%	170	204	1.00	0.80	G
IFL1212AZER3R9N	3.9	30%	200	240	0.90	0.70	H
IFL1212AZER4R7M	4.7	20%	250	300	0.85	0.65	I
IFL1212AZER5R6M	5.6	20%	300	360	0.78	0.60	J
IFL1212AZER6R8M	6.8	20%	350	420	0.70	0.55	K
IFL1212AZER8R2M	8.2	20%	400	480	0.65	0.50	L
IFL1212AZER100M	10	20%	490	588	0.60	0.45	M
IFL1212AZER150M	15	20%	680	816	0.50	0.38	O
IFL1212AZER220M	22	20%	1000	1200	0.40	0.33	Q

#### Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating and Storage temperature range -40 °C to +105 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L<sub>0</sub> to drop approximately 30 %
- (5) The part temperature (ambient + temp. rise) should not exceed 105 °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**

<b>IFL-1212BZ</b>	<b>4.7 <math>\mu</math>H</b>	<b><math>\pm 20\%</math></b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

I	F	L	1	2	1	2	B	Z	E	R	4	R	7	M
PRODUCT FAMILY			SIZE					PACKAGE CODE		INDUCTANCE VALUE			TOL.	



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