

## 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

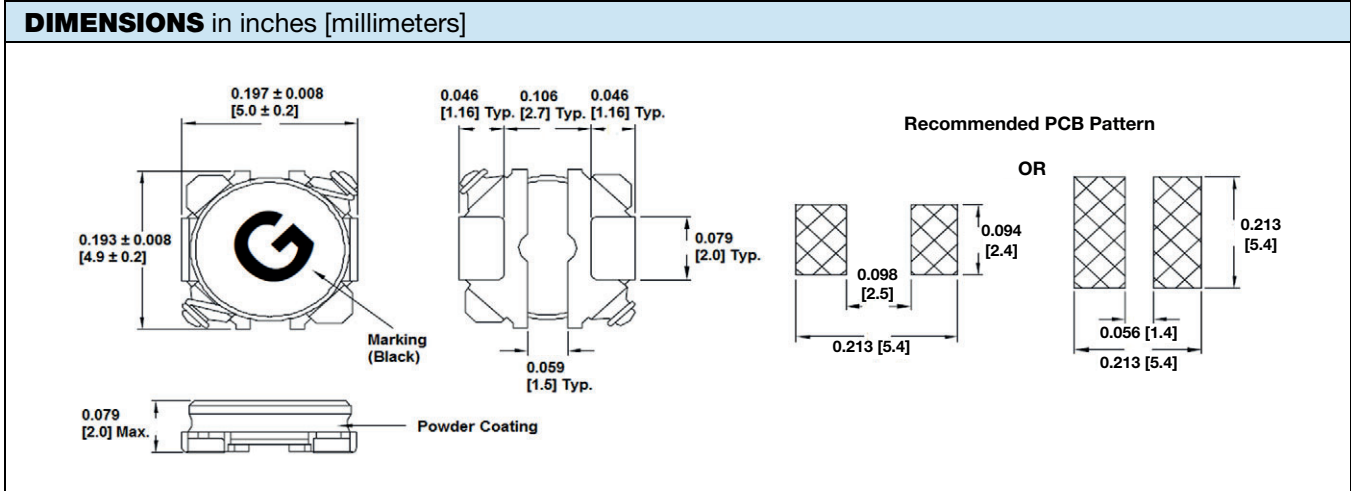
- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

### 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
IFL2020BZERR47N	0.47	30	42	50	2.60	7.50	6
IFL2020BZER1R0N	1.0	30	48	58	2.10	5.60	A
IFL2020BZER1R2N	1.2	30	58	70	1.95	4.70	B
IFL2020BZER1R5N	1.5	30	66	79	1.80	4.20	C
IFL2020BZER2R2N	2.2	30	77	92	1.70	3.40	E
IFL2020BZER3R3N	3.3	30	89	107	1.65	2.80	G
IFL2020BZER3R9N	3.9	30	97	116	1.60	2.60	H
IFL2020BZER4R7M	4.7	20	110	132	1.50	2.40	I
IFL2020BZER5R6M	5.6	20	130	156	1.40	2.30	J
IFL2020BZER6R8M	6.8	20	140	168	1.35	2.20	K
IFL2020BZER100M	10	20	170	204	1.20	2.00	M
IFL2020BZER150M	15	20	230	276	1.05	1.50	O
IFL2020BZER220M	22	20	350	420	0.85	1.20	Q
IFL2020BZER330M	33	20	480	576	0.70	1.00	S
IFL2020BZER470M	47	20	670	804	0.55	0.90	U
IFL2020BZER101M	100	20	1440	1728	0.40	0.55	Y

#### 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



DESCRIPTION				
IFL-2020BZ	4.7 $\mu$ H	$\pm 20\%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER														
I	F	L	2	0	2	0	B	Z	E	R	4	R	7	M
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.		



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