Wire-Wound Chip Power Inductors

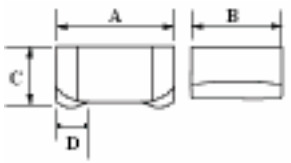
WPI L160808-Series

1.Features

1. Choke coil for DC/DC converter.
2. It corresponds to high current.
3. 100% Lead(Pb)-Free and RoHS compliant.

Halogen-free Pb-free Certificate Green Partner

2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)
160808	1.6±0.2	0.8±0.2	0.8±0.2	0.45±0.15

3. Part Numbering

WPI L 160808 F - 2R2 M

A B C D E F

A: Series
B: Category Code P=Power Inductor L=Low Loss Characteristic
C: Dimension A x B x C
D: Material Ferrite
E: Inductance 2R2=2.2uH
F: Inductance Tolerance K=±10%, M=±20%

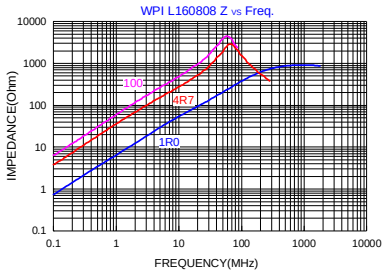
4.Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) ±30%	I sat (mA)	I rms (mA)	SRF (MHz) min.
WPI L160808F-1R0M	1.0	M	7.96	0.09	290	770	100
WPI L160808F-2R2M	2.2	M	7.96	0.17	190	560	80
WPI L160808F-3R3M	3.3	M	7.96	0.22	170	500	60
WPI L160808F-4R7M	4.7	M	7.96	0.24	145	470	45
WPI L160808F-100□	10	K, M	2.52	0.36	115	380	32
WPI L160808F-220□	22	K, M	2.52	1.00	70	230	16
WPI L160808F-470□	47	K, M	2.52	2.50	50	140	11

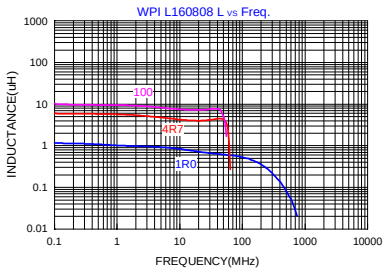
Note:
Isat：Based on inductance change （△L/L0：≦-30%）@ ambient temp. 25℃
Irms：Based on temperature rise （△T：40℃ typ.）

Impedance, Inductance v.s. Frequency Characteristics

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Inductance VS DC Bias Current