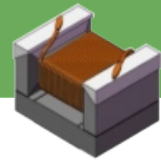


绕线片式铁氧体电感—AWL-FP 系列

Wire Wound Chip Ferrite Inductor—AWL-FP Series



工作温度

Operating Temp

- ◆ $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

特征

Features

- ◆ 宽带高阻抗特性
- ◆ 良好直流叠加性能
- ◆ 高效率传输信号
- ◆ 滤除视频噪音的范围从 MHz 到 GHz
- ◆ 高饱和电流, 低 DCR
- ◆ 尺寸小, 外形薄
- ◆ AEC-Q200 认证
- ◆ Broadband impedance characteristics
- ◆ Good DC superimposition characteristics
- ◆ Efficient transmission signal
- ◆ The range of filter video noise from MHz to GHz
- ◆ High saturation current, low DCR
- ◆ Small size and thin form factor
- ◆ AEC-Q200 qualified

用途

Applications

- ◆ 车载 PoC 线摄像头
- ◆ PoC line for automotive camera system

产品型号

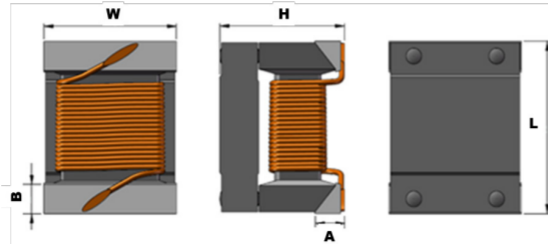
Product Identification

1	2	3	4	5	6	7	8	9
A	WL	3225	F	P	□□□	M	T	F

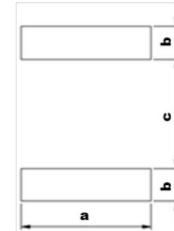
1	分类 Type	2	分类 Type	3	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)
A	汽车电子 Automotive	WL	绕线电感 Wire Wound Chip Inductor	3225	3.2×2.5
4	材料类型 Material Code	5	特性类别 Feature Type	6	公称电感量 Nominal Inductance
F	铁氧体 Ferrite	P	High Current	例子 Example	感值 Nominal Value
7	感量精度 Inductance Tolerance			2R2	2.2μH
M	±20%			2R7	2.7μH
8	包装 Packing	9	无有害物质 HSF Products	3R3	3.3μH
T	编带 Tape & Reel	F	Hazardous Substance Free Products	4R7	4.7μH
				100	10μH
				220	22μH
				470	47μH

外观尺寸

Shape and Dimensions



推荐焊盘 Recommended Land Pattern



单位 Unit: mm

Series	L	W	H	A	B	a _{REF.}	b _{REF.}	c _{REF.}
AWL3225FP	3.2±0.2	2.5±0.2	2.3±0.2	0.30±0.10	0.58±0.10	2.5	0.9	2.2

规格特性

Specifications

AWL3225FP Series

型号 Part Number	电感量 Inductance	直流电阻 DC Resistance	自谐振频率 Self-resonant Frequency	饱和电流 Saturation Current	温升电流 Heat Rating Current
	@1MHz, 1V	Max.	Min.	Max.	Max.
单位 Units	μH	Ω	MHz	mA	mA
符号 Symbol	L	DCR	SRF	Isat	Irms
AWL3225FP2R2MTF	2.2±20%	0.19	200	1000	1000
AWL3225FP2R7MTF	2.7±20%	0.22	200	975	975
AWL3225FP3R3MTF	3.3±20%	0.24	150	950	950
AWL3225FP4R7MTF	4.7±20%	0.28	100	850	850
AWL3225FP100MTF	10±20%	0.40	100	500	700
AWL3225FP220MTF	22±20%	0.62	50	400	550
AWL3225FP470MTF	47±20%	0.90	30	300	500

注：※ 1:额定电流: Isat(Max.) 或 Irms(Max.), 以较小数据为准。

※ 2:饱和电流:Max. 值:电感比初始电感量下降小于 30% 时, 所对应的直流电流的大小;

Typ. 值:电感比初始电感量下降大约 30% 时, 所对应的直流电流的大小。

※ 3:温升电流:使温度从 20°C 环境温度上升 (ΔT) 的直流电流;

对于 Max. 值, 温升 (ΔT) 为 20°C。

对于 Typ. 值, 温升 (ΔT) 约为 40°C。

在最坏的操作条件下, 零件温度 (环境温度 + 温升) 不应超过 125°C。电路设计、元件放置、PCB 走线尺寸和厚度、气流和其他冷却规定都会影响零件温度。应在最终应用中验证零件温度。

Note: ※ 1:Rated current: Isat(Max.) or Irms(Max.), whichever is smaller.

※ 2:Saturation Current:

Max. Value, DC current at which the inductance drops less than 30% from its value without current;

Typ. Value, DC current at which the inductance drops approximate 30% from its value without current.

※ 3:Heat Rating Current:DC current that causes the temperature rise (ΔT) from 20°C ambient;

For Max. Value,temperature rise (ΔT) is 20°C.

For Typ. Value,temperature rise (ΔT) is approximate 40°C.

The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

电气特性

Typical Electrical Characteristics

Impedance vs. Frequency

