

插件磁排

Ferrite Bead (Multiline)



特性

Characteristics

NiZn铁氧体磁芯的宽带滤波

Broadband filtering because of the NiZn-ferrite core

高阻抗共模电感，2x2绕组，由PCB线路连接制成

High impedance common mode inductor with 2x2 windings made by PCB line connection

一个组件中2、3或4线的射频共模电感器

RF common mode inductor for 2, 3 or 4 lines in one component

应用

Application

非常适合吸收EMC领域的共模或差模干扰

Perfect suitable for absorption of common or differential mode interferences in the field of EMC

多导体系统与电力电子

Multi-conductor systems and power electronics

低压电源的滤波元件

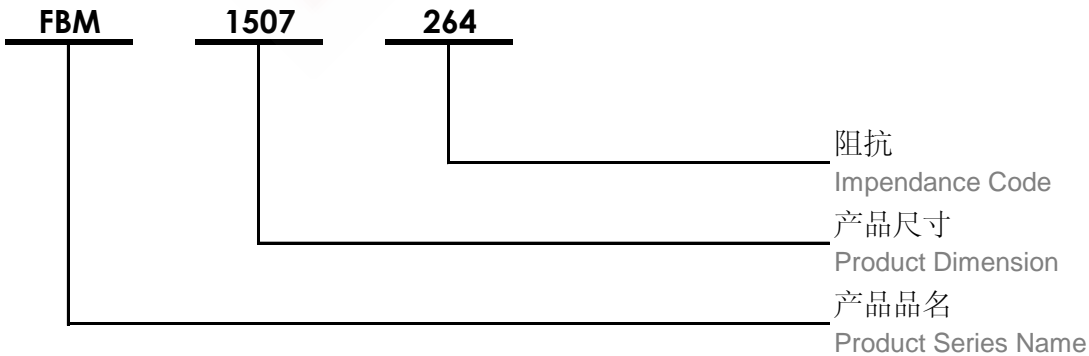
Filtering components of low voltage power supplies

转动一圈，组件的性能就像信号的共模扼流圈的3倍或4倍

With one turn the component performs like a 3 or 4 times common mode choke for the signal

产品品名介绍

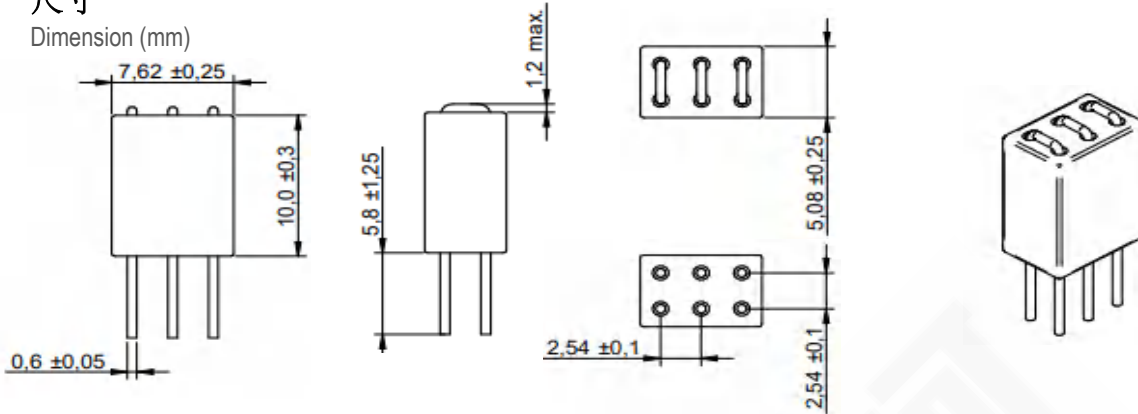
Product Number Structure





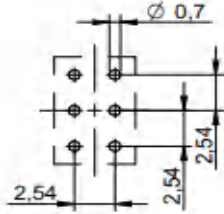
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



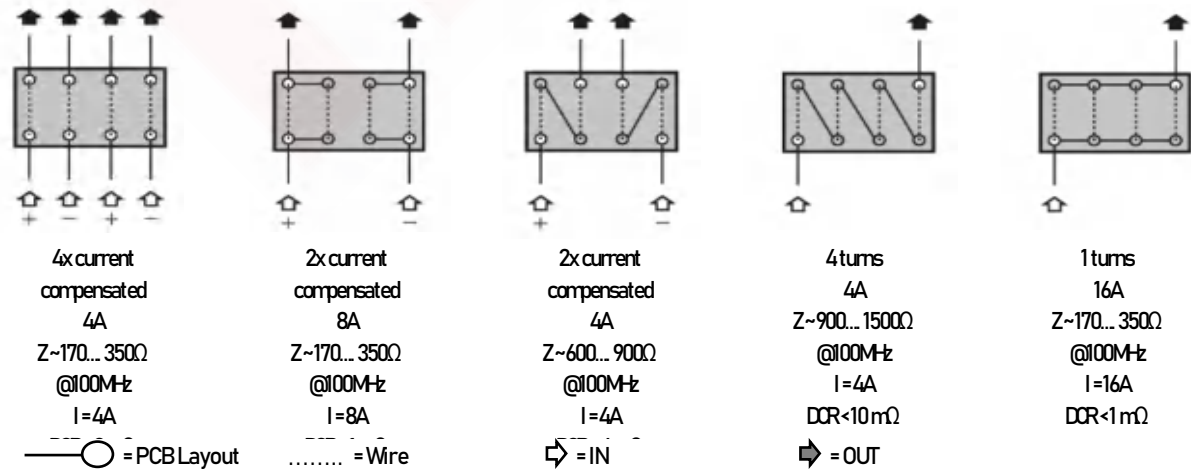
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1507-264	@25MHz 212	@100MHz 264	140

布局示例

Layout Example



测试状态

Test Condition

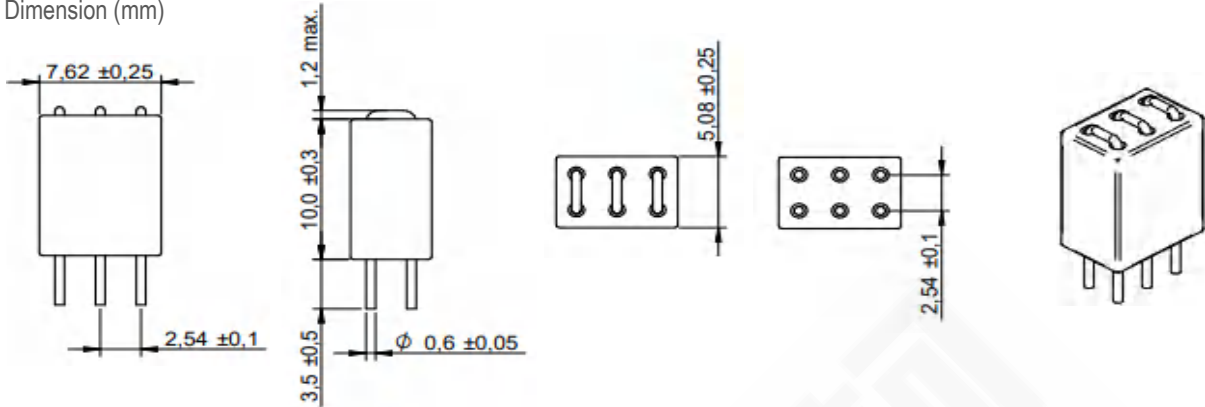
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



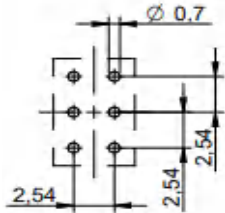
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



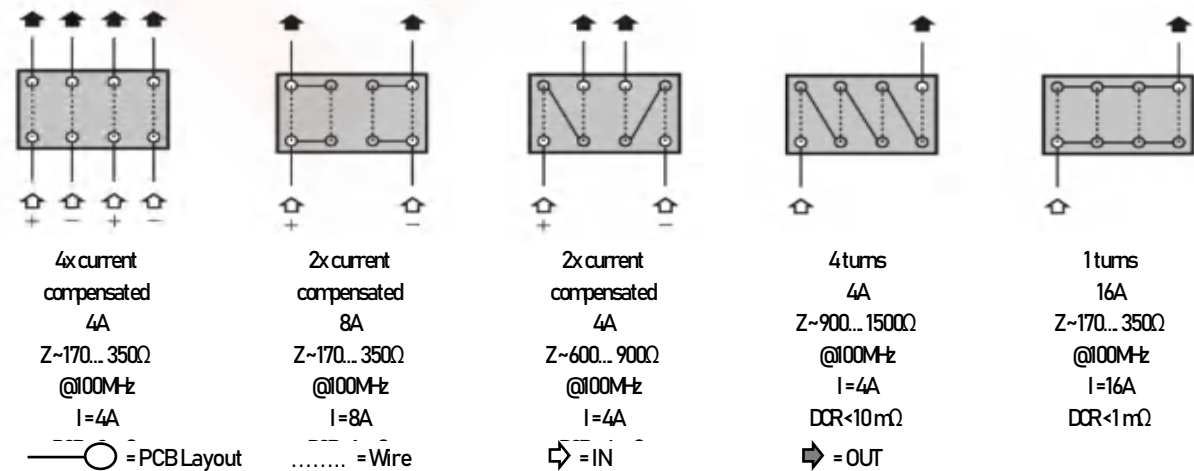
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1307-264	@25MHz 212	@100MHz 264	140

布局示例

Layout Example



测试状态

Test Condition

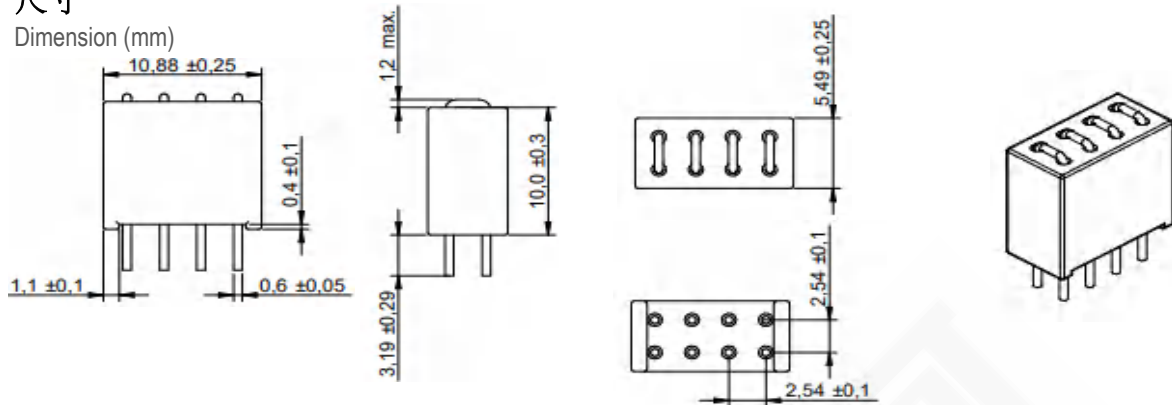
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



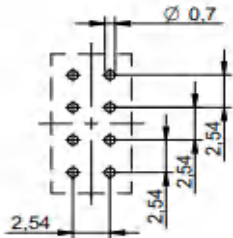
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



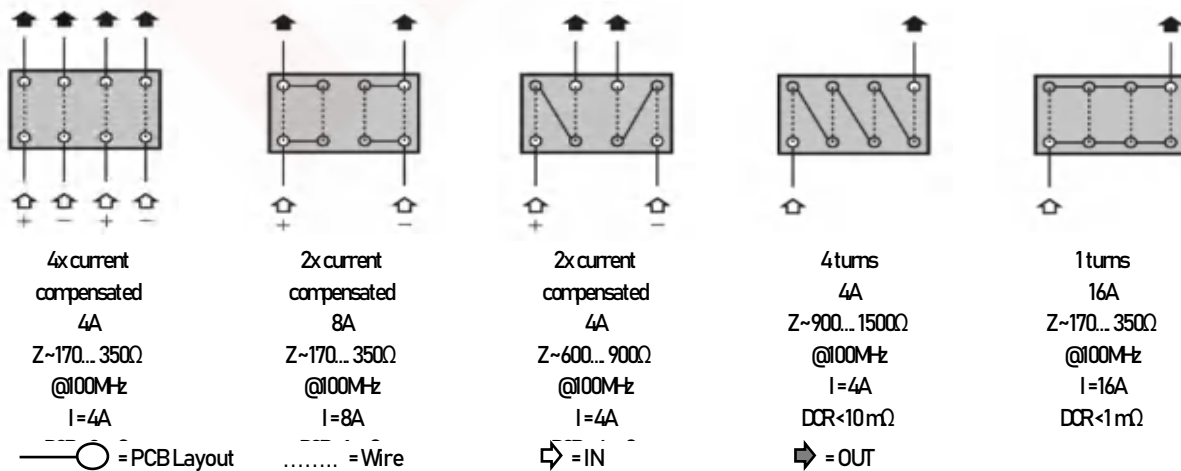
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) $\pm 25\%$	阻抗 Impedance Z (Ω) $\pm 25\%$	固化温度 Curie Temperature Tc $^{\circ}\text{C}$
FBM1410-249	@25MHz 209	@100MHz 249	140

布局示例

Layout Example



测试状态

Test Condition

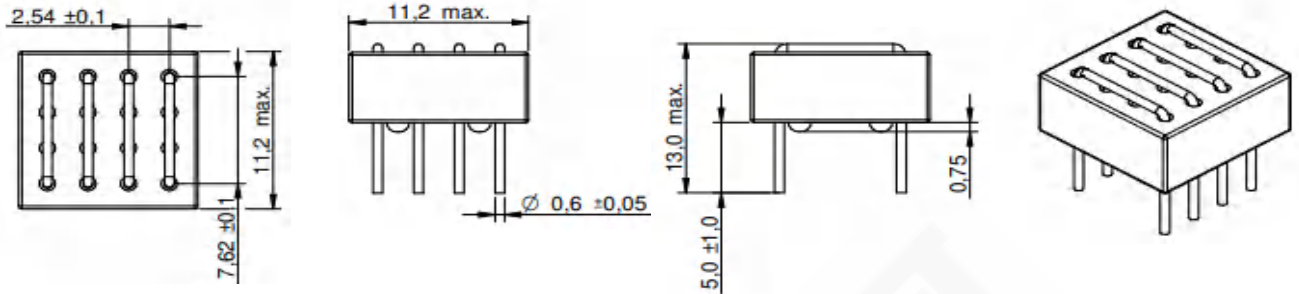
☆ 工作温度: $-25^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Operating Temperature: $-25^{\circ}\text{C} \sim +125^{\circ}\text{C}$



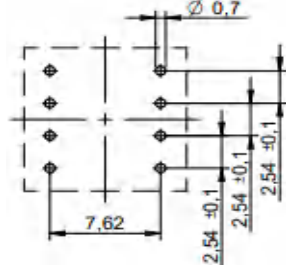
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



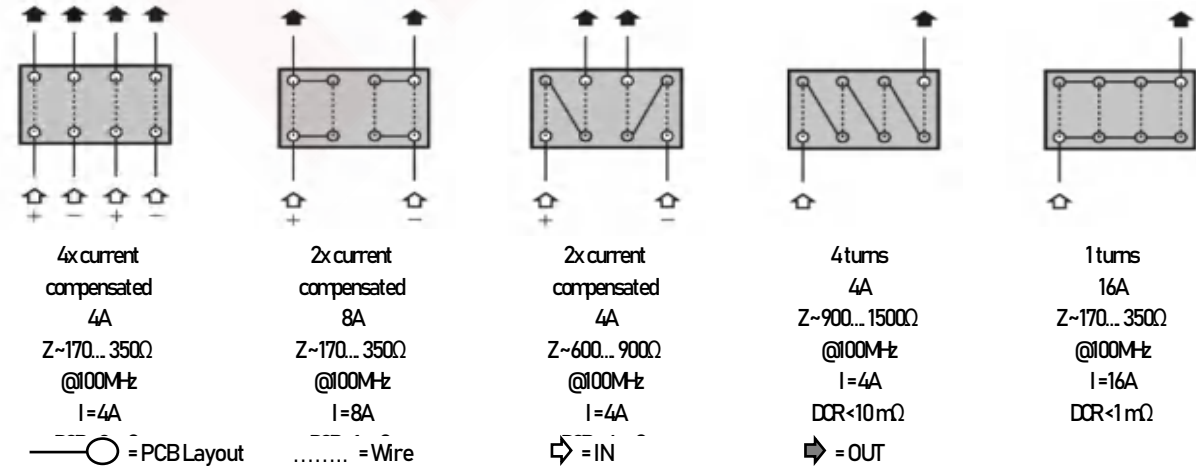
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1311-170	@25MHz 136	@100MHz 170	140

布局示例

Layout Example



测试状态

Test Condition

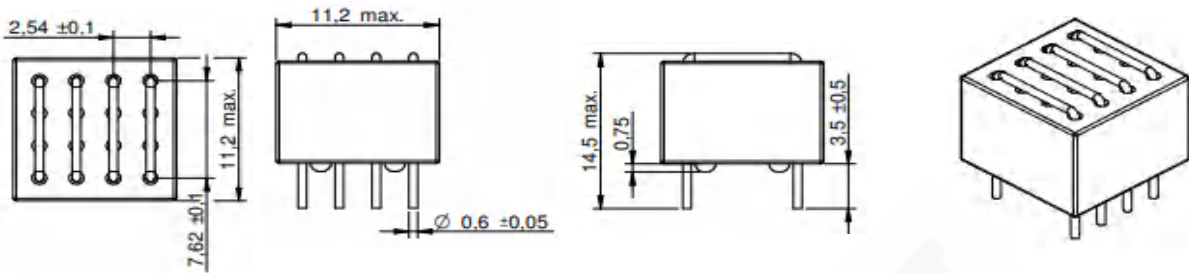
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



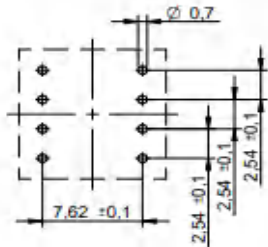
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



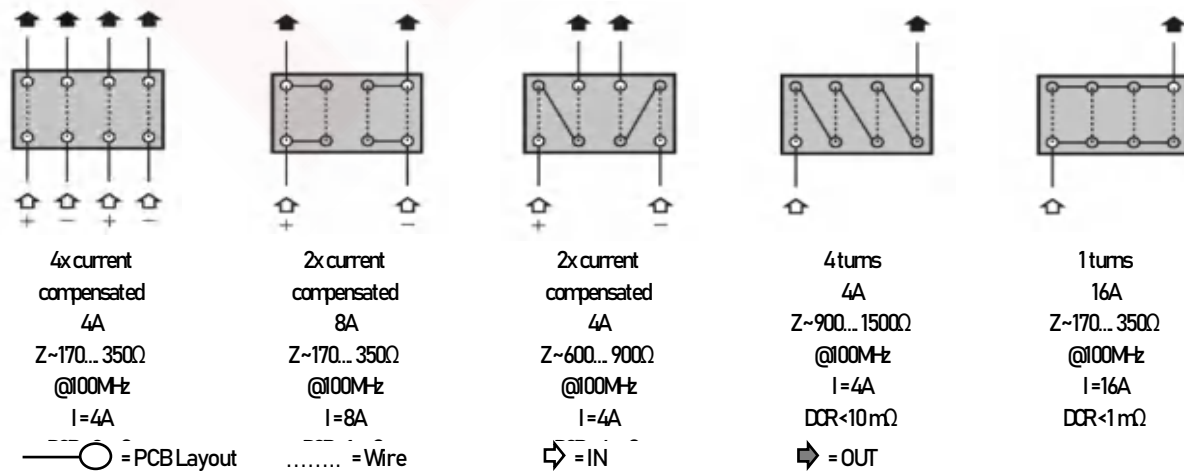
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1411-248	@25MHz 208	@100MHz 248	140

布局示例

Layout Example



测试状态

Test Condition

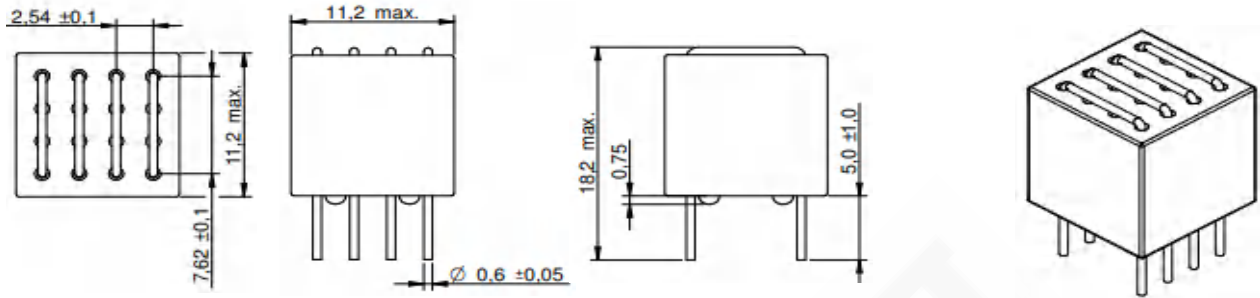
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



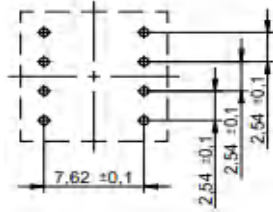
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



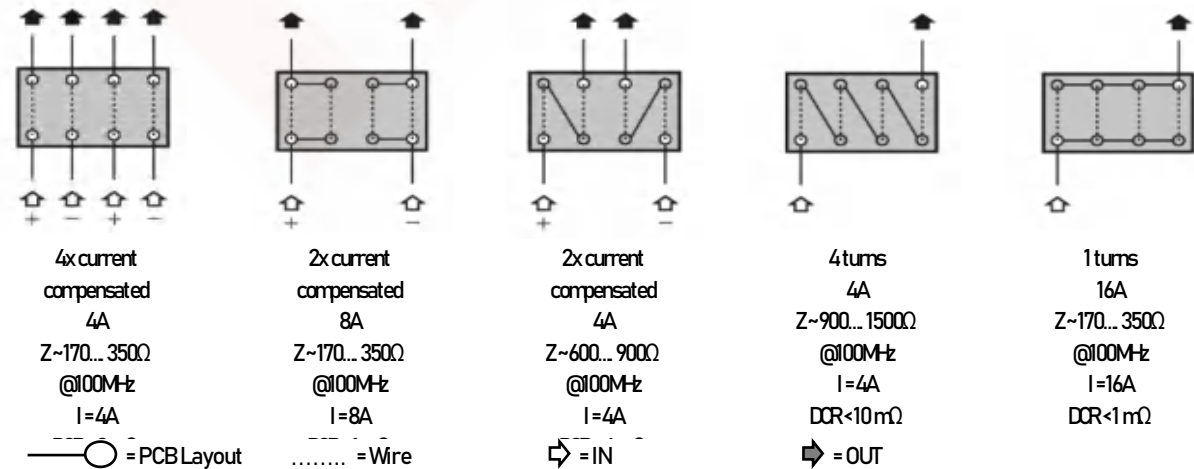
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1811-334	@25MHz 292	@100MHz 334	140

布局示例

Layout Example



测试状态

Test Condition

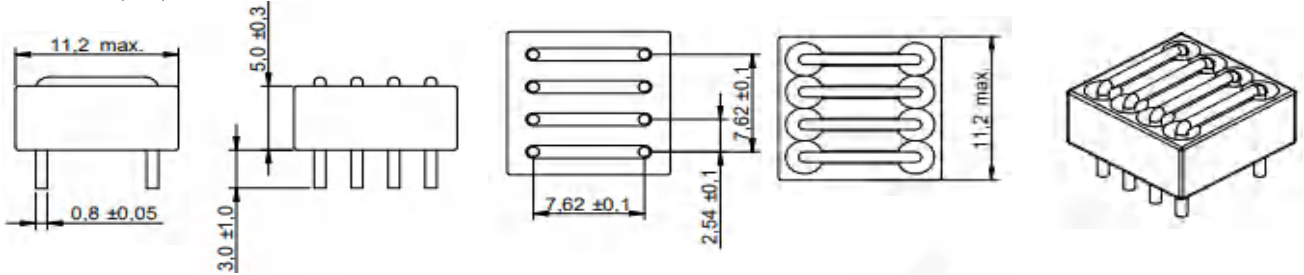
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



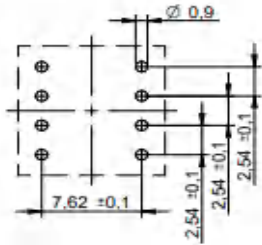
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



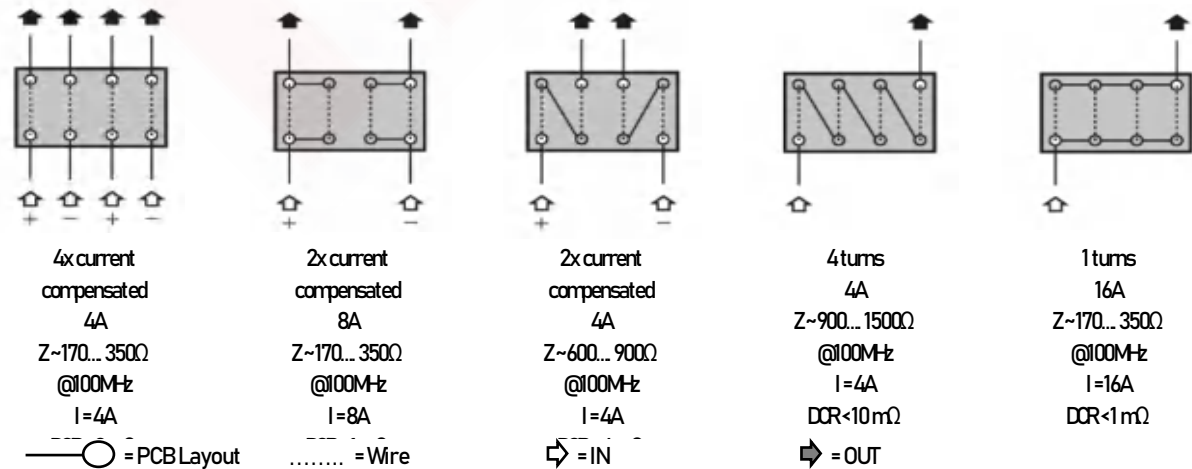
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM0811-150	@25MHz 115	@100MHz 150	140

布局示例

Layout Example



测试状态

Test Condition

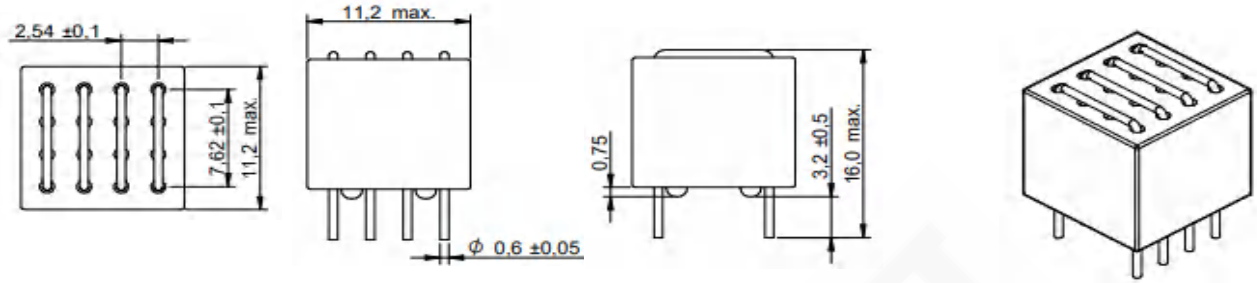
☆ 工作温度: -25°C ~ +125°C

Operating Temperature: -25°C ~ +125°C



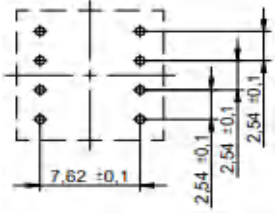
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



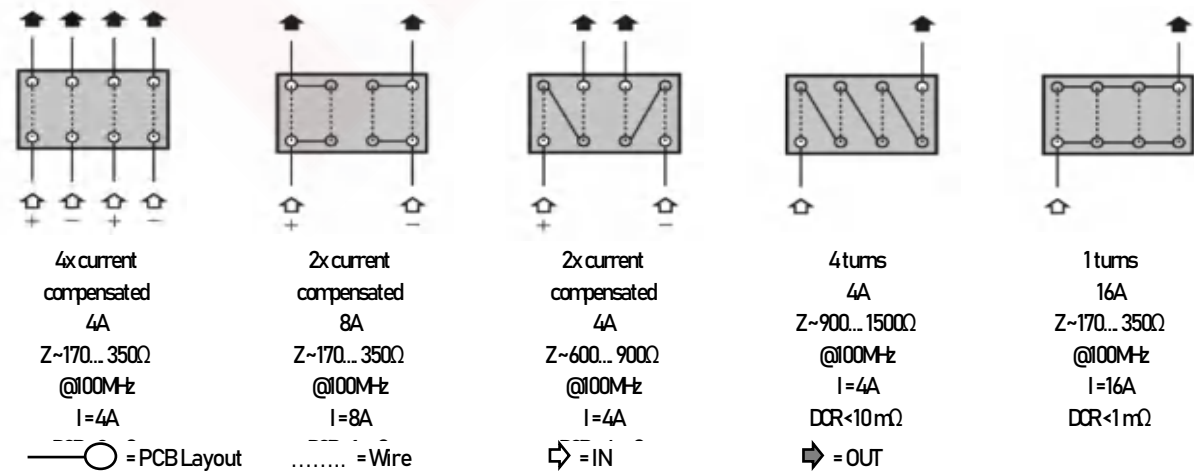
电性特性

Electrical Properties

型号 Part No.	阻抗 Impedance Z (Ω) ±25%	阻抗 Impedance Z (Ω) ±25%	固化温度 Curie Temperature Tc °C
FBM1611-334	@25MHz 292	@100MHz 334	140

布局示例

Layout Example

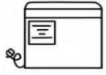


测试状态

Test Condition

☆ 工作温度: -25°C ~ +125°C

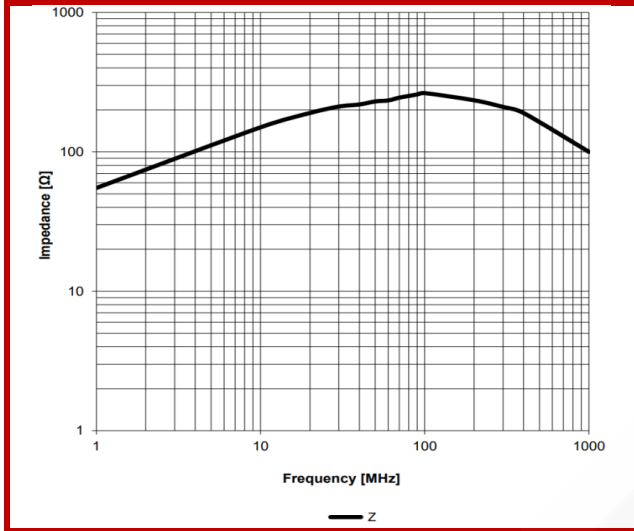
Operating Temperature: -25°C ~ +125°C



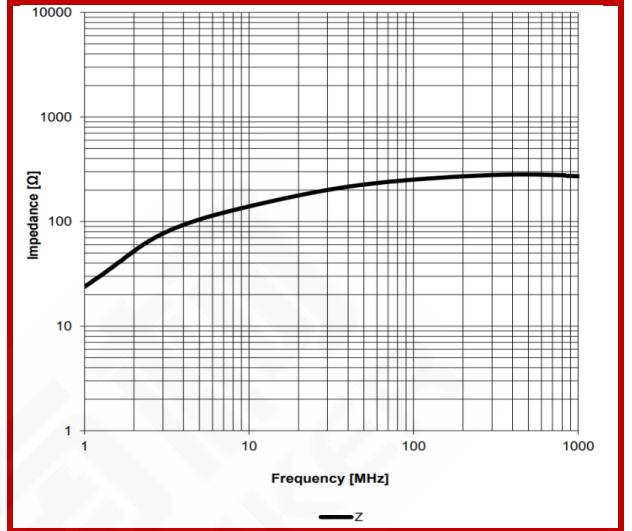
典型阻抗特性

Typical Impedance Characteristics

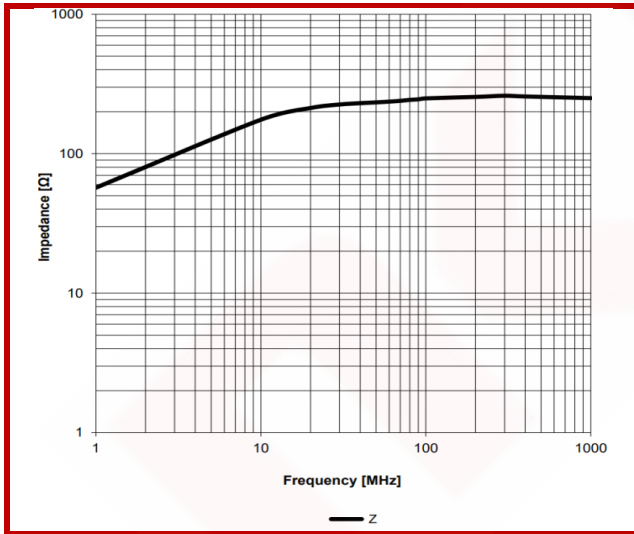
FBM1507-264



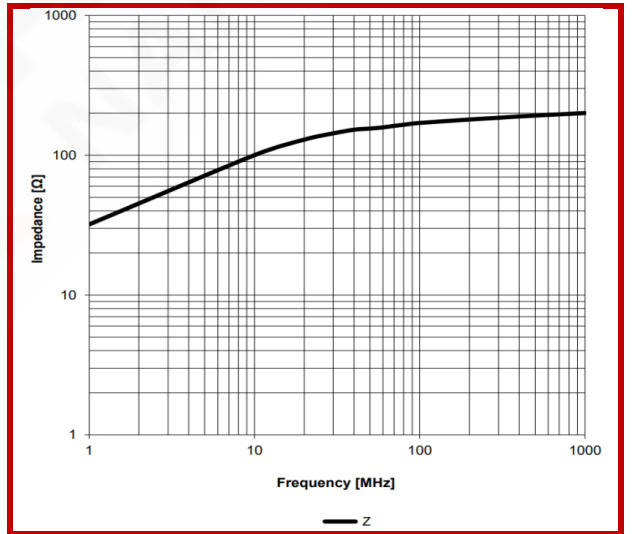
FBM1307-264



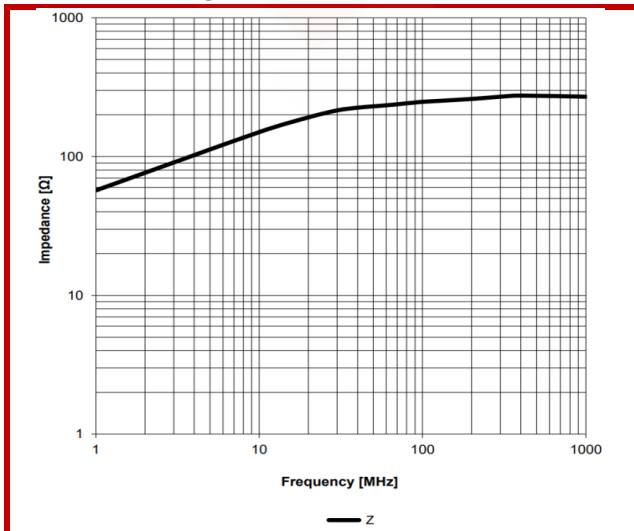
FBM1410-249



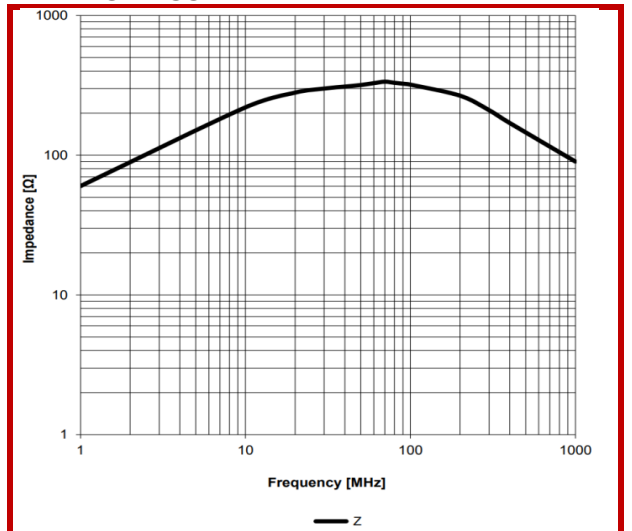
FBM1311-170



FBM1411-248



FBM1811-334

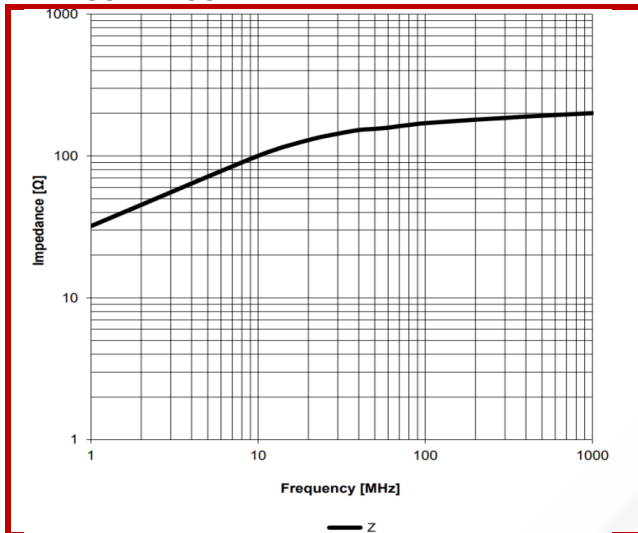




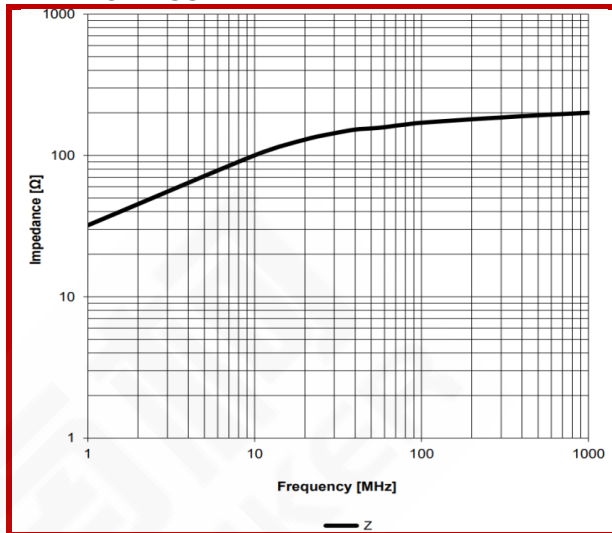
典型阻抗特性

Typical Impedance Characteristics

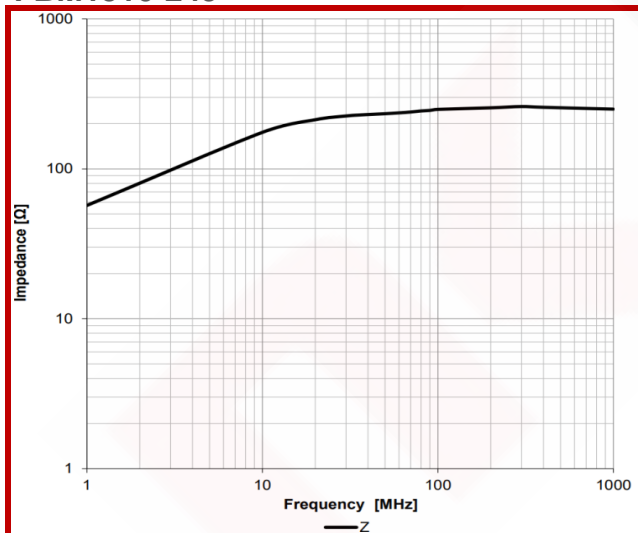
FBM8011-150

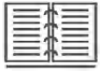


FBM1611-334



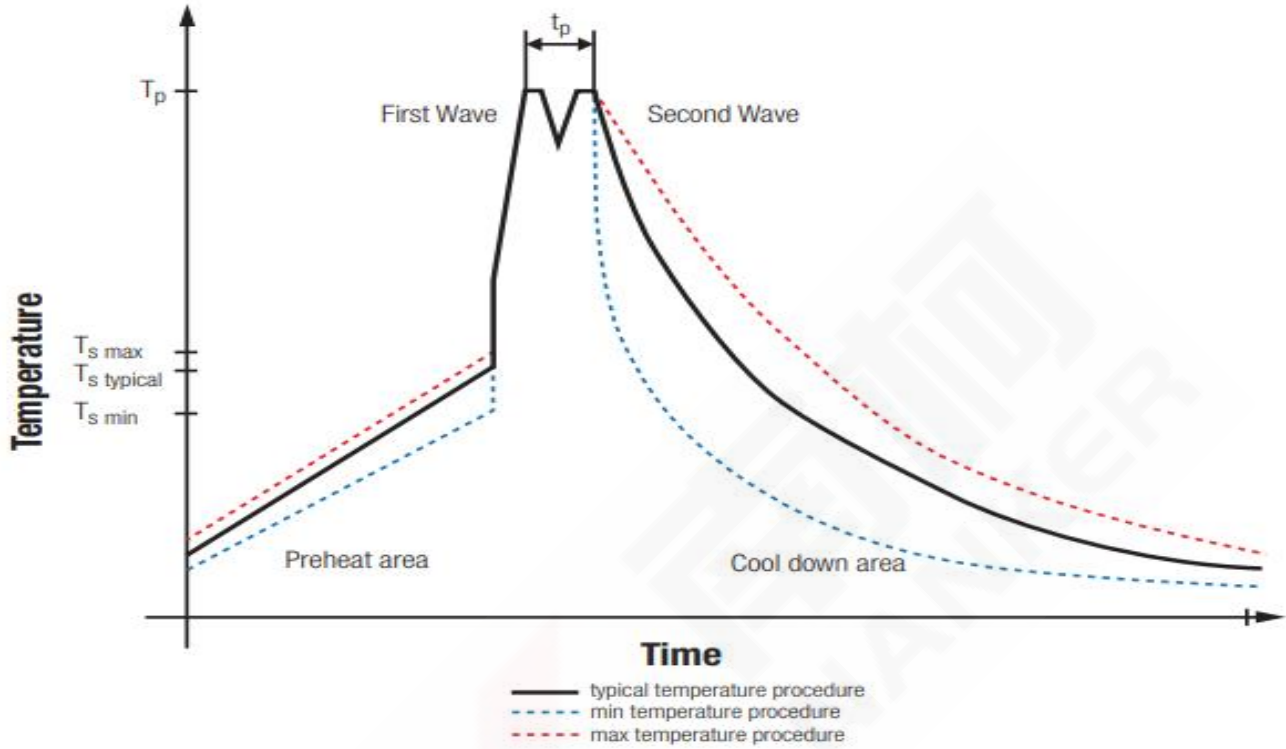
FBM1510-249





波峰焊线图

Classification Wave Soldering Profile



封装体峰值温度(T_p)分类

Classification Reflow Soldering Profile:

Profile Feature			Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s \text{ min}}$	$T_{s \text{ min}}$	100°C	100°C
Preheat Temperature Typical	$T_{s \text{ typical}}$	$T_{s \text{ typical}}$	120°C	120°C
Preheat Temperature Max	$T_{s \text{ max}}$	$T_{s \text{ max}}$	130°C	130°C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	t_s	t_s	70 seconds	70 seconds
Ramp-up Rate	ΔT	ΔT	150°C max	150°C max
Peak Temperature	T_p	T_p	250°C ~ 260°C	235°C ~ 260°C
Time of actual peak temperature	t_p	t_p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min			~ 2K/seconds	~ 2K/seconds
Ramp-down Rate, Typical			~3.5K/seconds	~3.5K/seconds
Ramp-down Rate, Max			5K/seconds	5K/seconds
Time 25°C to 25°C			4 minutes	4 minutes

* 波峰焊参照标准EN61760-1:2006。

Wave Soldering is refer to standard EN61760-1:2006