

# 叠层片式铁氧体磁珠—PZ 系列

## Multilayer Chip Ferrite Bead – PZ Series



### 工作温度

Operating Temp

◆ -55°C ~ +125°C

### 特征

Features

- ◆ 内部印有银电极的叠层结构，铁氧体屏蔽无串扰
- ◆ Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- ◆ 具有较大的额定电流，允许的最大电流为 6A
- ◆ Large withstand current (allowable current: up to 6A)
- ◆ 在较宽的频率范围内具有优良的 EMI 抑制效果
- ◆ Can be used in a wide range of frequency to suppress EMI
- ◆ 三种铁氧体材料、阻抗范围宽，适用于不同的电子线路
- ◆ Three types material and wide range of impedance values for various applications

### 用途

Applications

- ◆ 电脑及周边设备，电源适配器、LCD TV 等音视频设备，通讯设备，办公自动化等电子设备的电源线或大电流信号线的噪声抑制
- ◆ Noise suppression for power line or large current signal of electric equipments such as computers and peripheral devices, power adapter, LCD TVs, communication equipments, OA equipments, etc.

### 产品型号

Product Identification



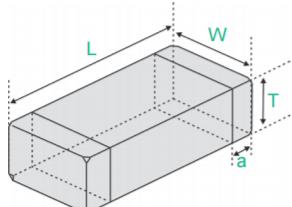
1 分类 Type	
PZ	片式铁氧体大电流磁珠 Chip Ferrite Bead For Large Current
4 公称阻抗值 Nominal Impedance	
Example	
300	30Ω
121	120Ω
102	1000Ω
6 包装 Packing	
T	编带 Tape & Reel

2 外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)	
0603 [0201]	0.6×0.3
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25
3216 [1206]	3.2×1.6
4516 [1806]	4.5×1.6

3 材料代号 Material Code	
D, E, U	
5 额定电流值 Rated Current	
R60	0.6A
2R5	2.5A
3R0	3.0A
7 无有害物质产品 Hazardous Substance Free Products	
F	
8 内部代码 Internal Code	
A99	

### 外观尺寸

Shape and Dimensions



Type	L	W	T	a
PZ0603 [0201]	0.6±0.05 [.024±.002]	0.3±0.05 [.012±.002]	0.3±0.05 [.012±.002]	0.15±0.05 [.006±.002]
PZ1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
PZ1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
PZ2012 [0805]	2.0 (+0.3, -0.1) [.079 (+.012, -.004)]	1.25±0.2 [.049±.008]	0.85±0.2 [.033±.008]	0.5±0.3 [.020±.012]
PZ3216 [1206]	3.2±0.2 [.126±.008]	1.6±0.2 [.063±.008]	0.85±0.2 [.033±.008]	0.5±0.3 [.020±.012]
			1.1±0.2 [.043±.008]	
PZ4516 [1806]	4.5±0.2 [.178±.008]	1.6±0.2 [.063±.008]	1.6±0.2 [.063±.008]	0.5±0.3 [.020±.012]

## 规格特性

Specifications

### PZ0603 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ0603D600-R50TF	60±25%	100	0.18	500	0.3±0.05 [.012±.002]
PZ0603D800-R50TF	80±25%	100	0.20	500	
PZ0603D121-R45TF	120±25%	100	0.25	450	
PZ0603D241-R35TF	240±25%	100	0.41	350	
PZ0603D601-R25TF	600±25%	100	1.00	250	
PZ0603D102-R20TF	1000±25%	100	1.40	200	
PZ0603U100-1R0TF	5~15	100	0.05	1000	
PZ0603U800-R50TF	80±25%	100	0.18	500	
PZ0603U121-R45TF	120±25%	100	0.23	450	
PZ0603U241-R35TF	240±25%	100	0.38	350	

### PZ1005 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ1005D100-1R0TF	0~30	100	0.05	1000	0.5±0.15 [.020±.006]
PZ1005E100-1R8TF	0~15	100	0.02	1800	
PZ1005E700-R80TF	70±25%	100	0.10	800	
PZ1005E121-R70TF	120±25%	100	0.13	700	
PZ1005E221-R60TF	220±25%	100	0.18	600	
PZ1005E601-R45TF	600±25%	100	0.34	450	
PZ1005U700-1R2TF	70±25%	100	0.10	1200	
PZ1005U121-1R0TF	120±25%	100	0.12	1000	
PZ1005U221-R80TF	220±25%	100	0.18	800	
PZ1005U601-R45TF	600±25%	100	0.34	450	

### PZ1608 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ1608D300-3R0TF	30±25%	100	0.03	3000	0.8±0.15 [.031±.006]
PZ1608D600-2R0TF	60±25%	100	0.08	2000	
PZ1608D750-1R0TF	75±25%	100	0.15	1000	
PZ1608D121-1R0TF	120±25%	100	0.20	1000	
PZ1608D221-1R0TF	220±25%	100	0.20	1000	
PZ1608D601-R50TF	600±25%	100	0.35	500	
PZ1608E600-1R4TF	60±25%	100	0.10	1400	
PZ1608U100-3R0TF	0~15	100	0.02	3000	
PZ1608U300-3R0TF	30±25%	100	0.03	3000	
PZ1608U600-2R5TF	60±25%	100	0.04	2500	
PZ1608U121-2R0TF	120±25%	100	0.05	2000	
PZ1608U221-1R4TF	220±25%	100	0.10	1400	
PZ1608U331-1R2TF	330±25%	100	0.14	1200	
PZ1608U391-1R0TF	390±25%	100	0.14	1000	
PZ1608U471-1R0TF	470±25%	100	0.20	1000	



**规格特性**  
Specifications

PZ2012 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ2012D390-4R0TF	39±25%	100	0.02	4000	0.85±0.2 [.033±.008]
PZ2012D800-3R0TF	80±25%	100	0.04	3000	
PZ2012D121-2R5TF	120±25%	100	0.06	2500	
PZ2012D221-1R5TF	220±25%	100	0.08	1500	
PZ2012D301-1R5TF	300±25%	100	0.12	1500	
PZ2012D471-R80TF	470±25%	100	0.25	800	
PZ2012D601-R80TF	600±25%	100	0.25	800	
PZ2012U300-3R0TF	30±25%	100	0.02	3000	
PZ2012U300-4R0TF	30±25%	100	0.015	4000	
PZ2012U600-3R0TF	60±25%	100	0.025	3000	
PZ2012U121-2R5TF	120±25%	100	0.04	2500	
PZ2012U221-2R0TF	220±25%	100	0.07	2000	
PZ2012U301-1R5TF	300±25%	100	0.10	1500	
PZ2012U421-1R0TF	420±25%	100	0.20	1000	
PZ2012U601-R80TF	600±25%	100	0.25	800	

PZ3216 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ3216D190-6R0TF	19±25%	100	0.010	6000	0.85±0.2 [.033±.008]
PZ3216D600-4R0TF	60±25%	100	0.02	4000	
PZ3216U300-6R0TF	30±25%	100	0.01	6000	
PZ3216U600-4R0TF	60±25%	100	0.025	4000	
PZ3216U221-2R0TF	220±25%	100	0.08	2000	
PZ3216U301-2R0TF	300±25%	100	0.10	2000	
PZ3216U391-2R0TF	390±25%	100	0.07	2000	
PZ3216U601-1R5TF	600±25%	100	0.10	1500	
PZ3216U102-R50TF	1000±25%	100	0.30	500	
PZ3216D000-4R0TFA99	0~10	100	0.02	4000	
PZ3216D050-6R0TFA99	0~15	100	0.01	6000	
PZ3216D100-6R0TFA99	0~20	100	0.01	6000	
PZ3216D190-2R0TFA99	19±25%	100	0.05	2000	
PZ3216D310-3R0TFA99	31±25%	100	0.045	3000	
PZ3216D380-5R0TFA99	38±25%	100	0.015	5000	
PZ3216D500-4R0TFA99	50±25%	100	0.02	4000	
PZ3216D600-2R5TFA99	60±25%	100	0.025	2500	
PZ3216D700-3R0TFA99	70±25%	100	0.03	3000	
PZ3216D800-3R0TFA99	80±25%	100	0.03	3000	
PZ3216D900-2R0TFA99	90±25%	100	0.08	2000	
PZ3216D101-3R0TFA99	100±25%	100	0.03	3000	
PZ3216D121-3R0TFA99	120±25%	100	0.03	3000	
PZ3216D151-3R0TFA99	150±25%	100	0.03	3000	
PZ3216D391-2R5TFA99	390±25%	100	0.05	2500	
PZ3216D501-2R0TFA99	500±25%	100	0.07	2000	
PZ3216D601-2R0TFA99	600±25%	100	0.07	2000	
PZ3216U310-6R0TFA99	31±25%	100	0.01	6000	
PZ3216U500-4R0TFA99	50±25%	100	0.02	4000	
PZ3216U600-1R5TFA99	60±25%	100	0.03	1500	
PZ3216U121-3R0TFA99	120±25%	100	0.03	3000	
PZ3216U102-1R0TFA99	1000±25%	100	0.30	1000	

## 规格特性

### Specifications

#### PZ3216 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ3216U501-2R0TFA99	500±25%	100	0.07	2000	1.6±0.2 [.063±.008]

注：当产品的Ir增加时，PZ3216系列的厚度可能会增加到1.1±0.2mm。

Note: The thickness of PZ3216 series may be increased to 1.1±0.2mm when the Ir of product increased.

#### PZ4516 TYPE

型号 Part Number	阻抗 Impedance	阻抗的测试频率 Z Test Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current	厚度 Thickness
单位 Units	Ω	MHz	Ω	mA	mm [inch]
符号 Symbol	Z	Freq.	DCR	Ir	T
PZ4516U600-6R0TF	60±25%	100	0.01	6000	1.6±0.2 [.063±.008]
PZ4516U720-6R0TF	72±25%	100	0.01	6000	
PZ4516U181-3R0TF	180±25%	100	0.025	3000	
PZ4516U471-2R0TF	470±25%	100	0.05	2000	
PZ4516U102-1R5TF	1000±25%	100	0.09	1500	

※: 可根据客户需求提供其他电气特性产品。请联系您当地的销售人员。

※: Products with other Electrical Characteristics can be provided upon customer's request. Please contact your local sales.

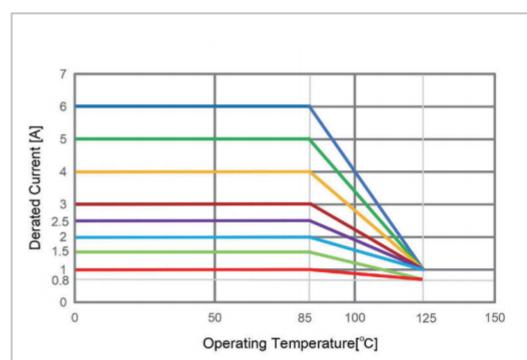
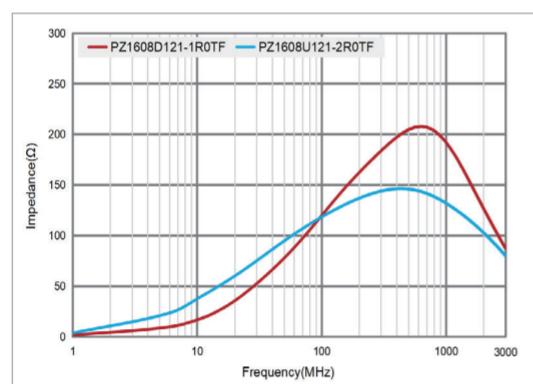
## 电气特性

### Typical Electrical Characteristics

#### D, E, U Material Comparison

#### 额定电流 Rated Current

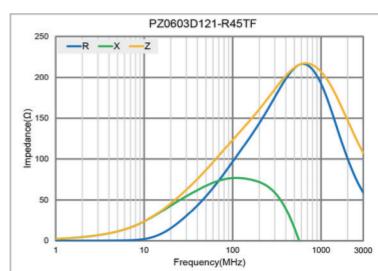
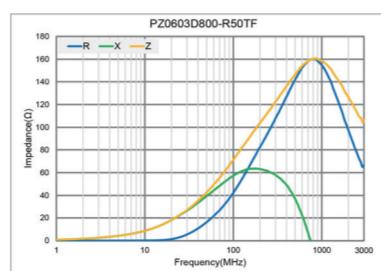
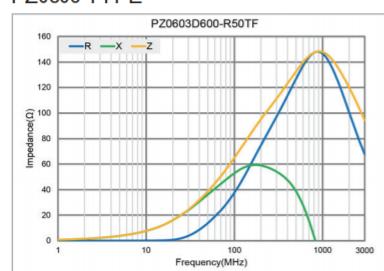
当工作温度超过 +85°C 时，额定电流为 1000mA 及以上的片式铁氧体磁珠需要降额。请根据工作温度应用图表中所示的降额曲线。When operating temperatures exceed +85°C , derating of current is necessary for chip ferrite beads for which ratedcurrent is 1000mA and over. Please apply the derating curve shown in chart according to the operating temperature.



## 电气特性

### Detail Electrical Characteristics

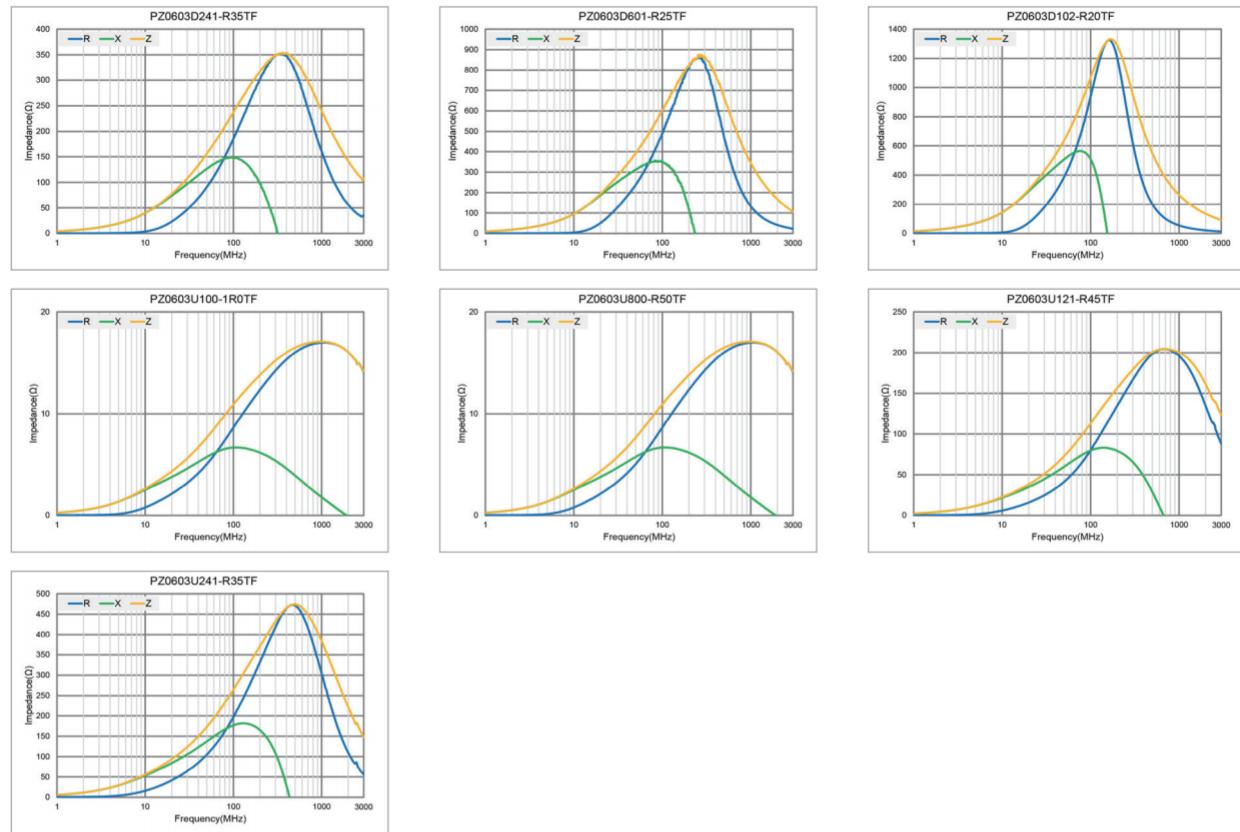
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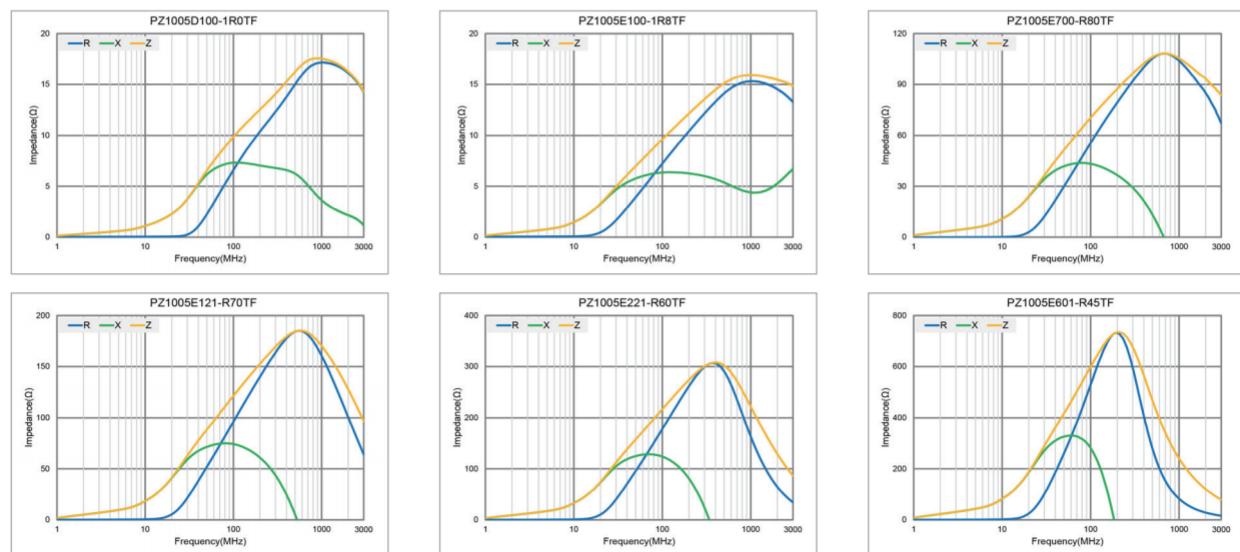
## 电气特性

Detail Electrical Characteristics

### PZ603 TYPE



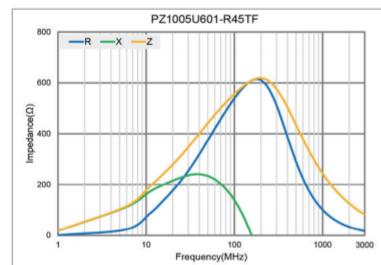
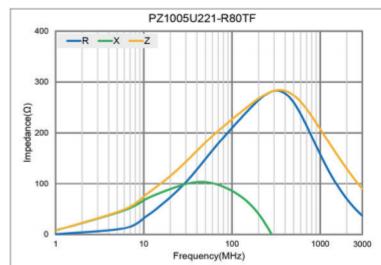
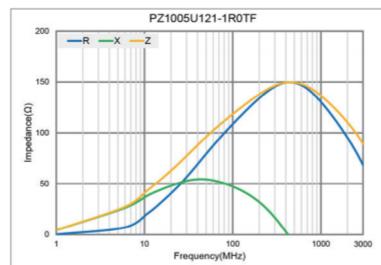
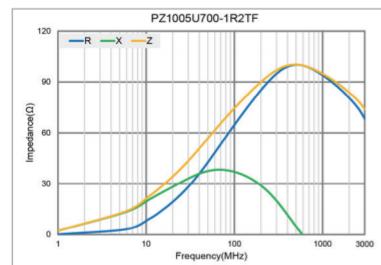
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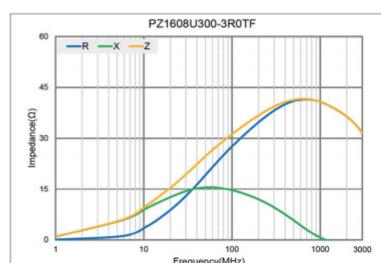
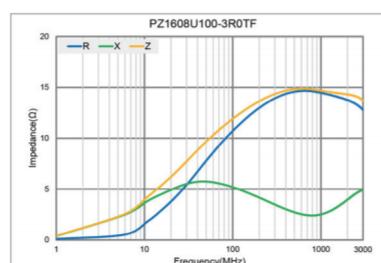
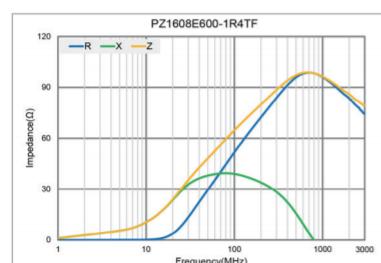
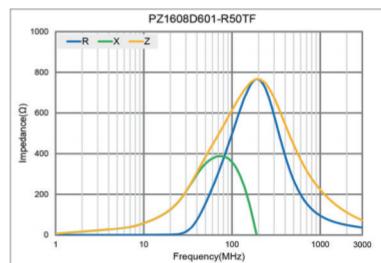
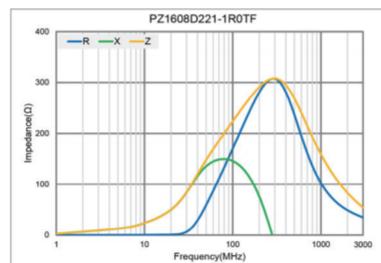
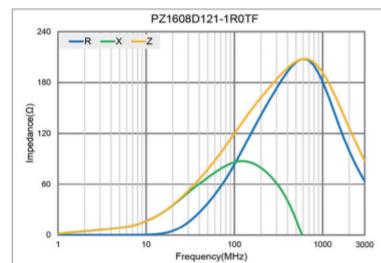
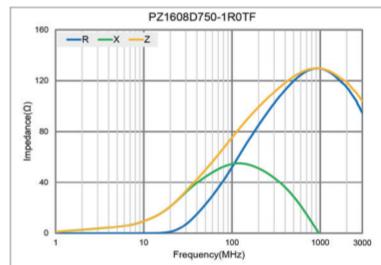
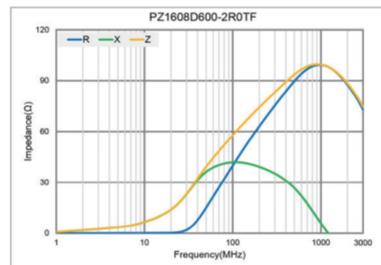
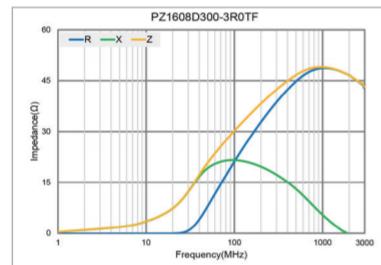
## 电气特性

### Detail Electrical Characteristics

#### PZ1005 TYPE



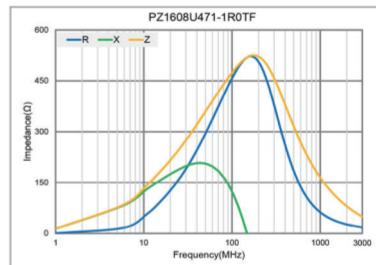
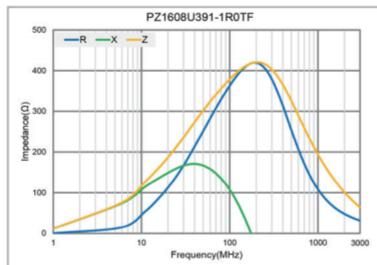
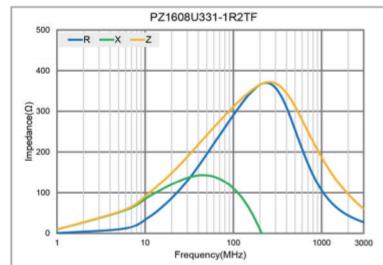
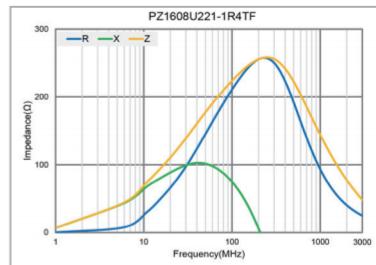
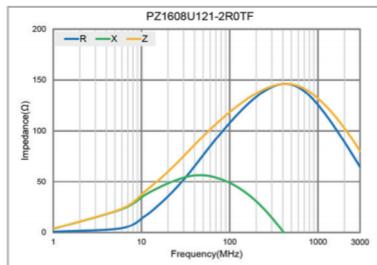
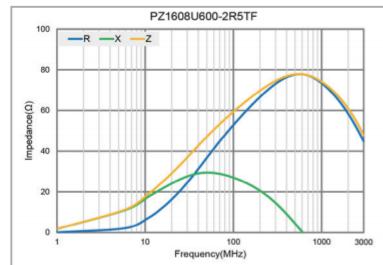
#### PZ1608 TYPE



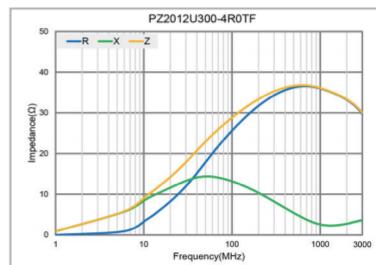
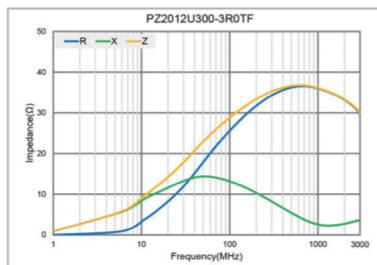
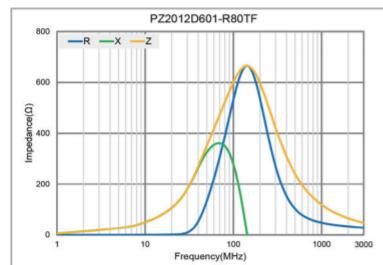
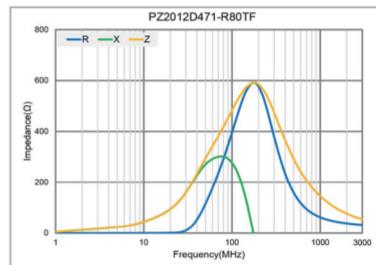
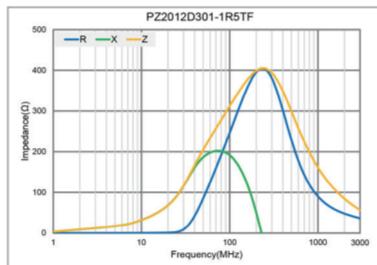
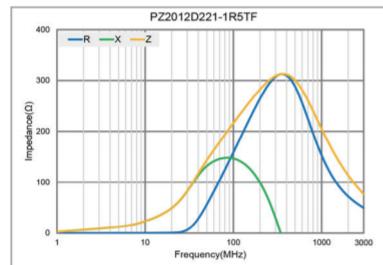
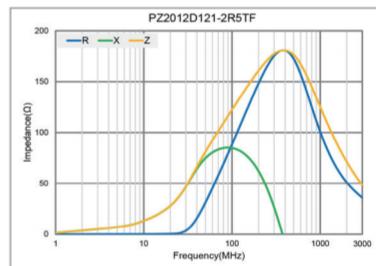
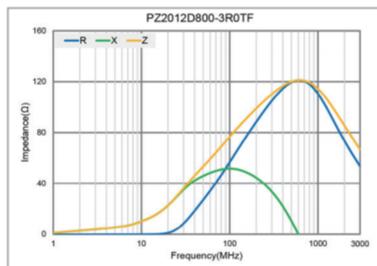
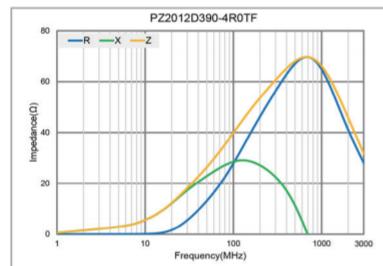
## 电气特性

Detail Electrical Characteristics

### PZ1608 TYPE



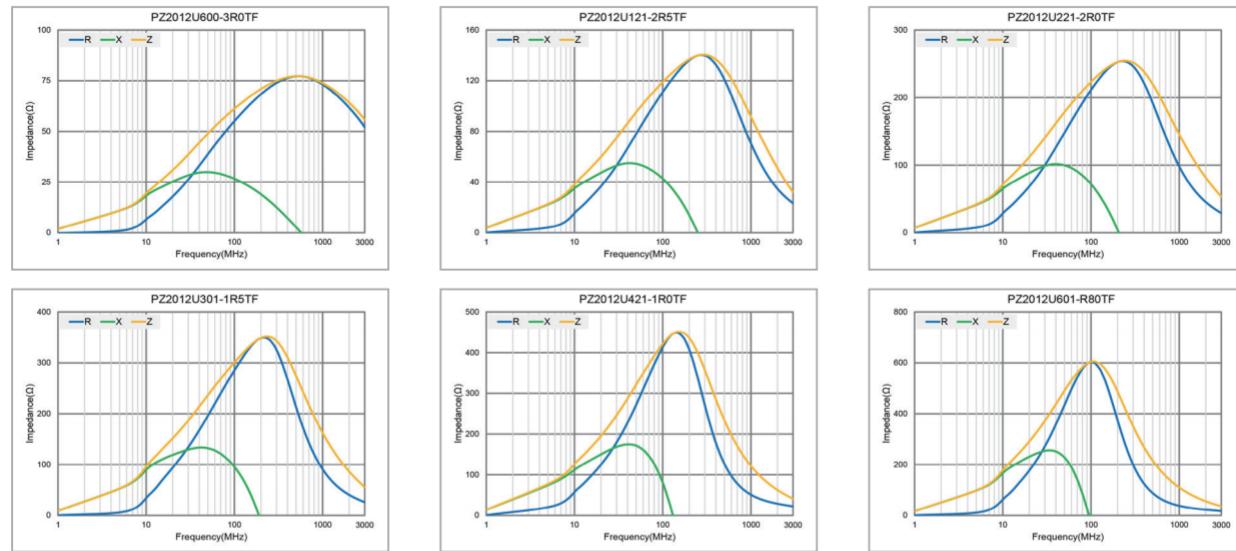
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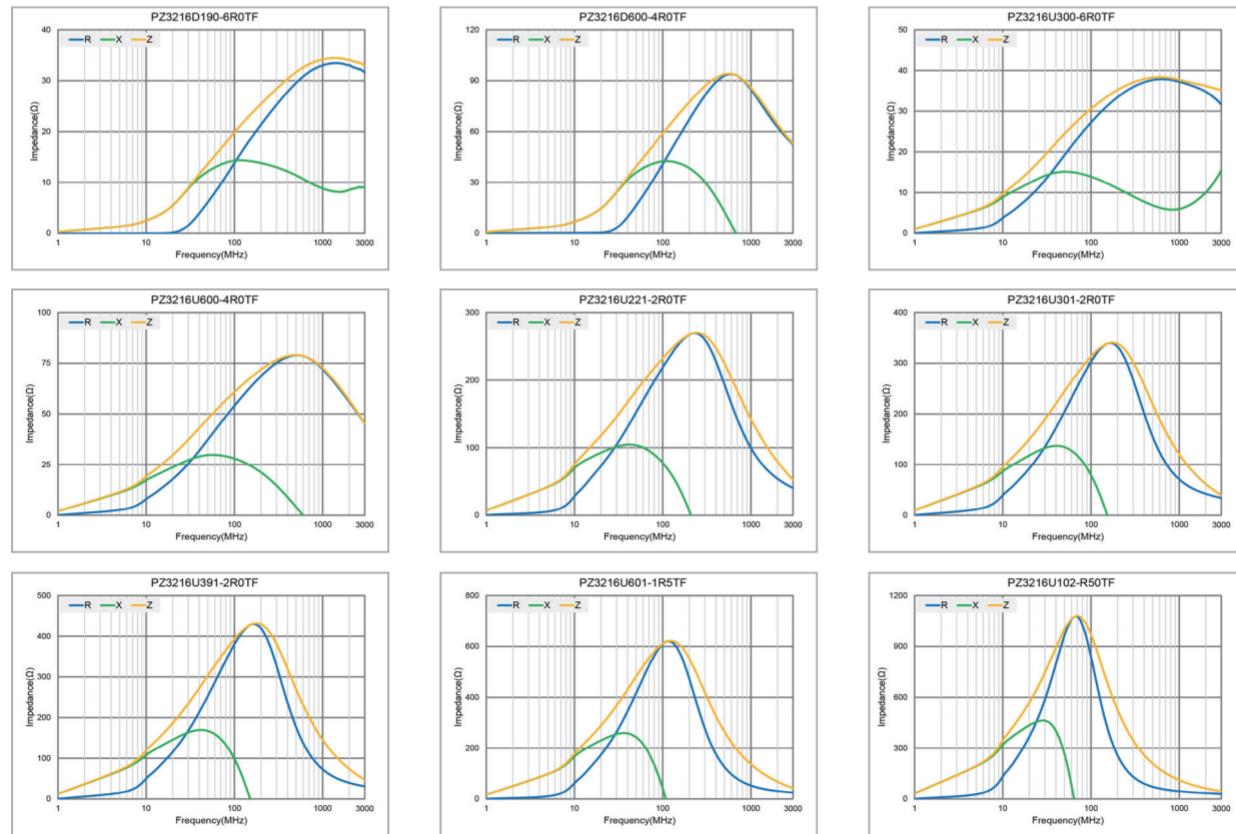
## 电气特性

### Detail Electrical Characteristics

#### PZ2012 TYPE



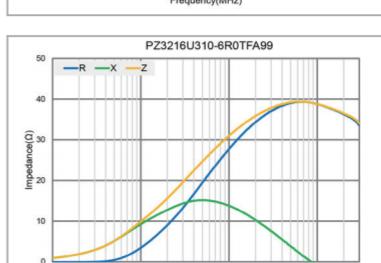
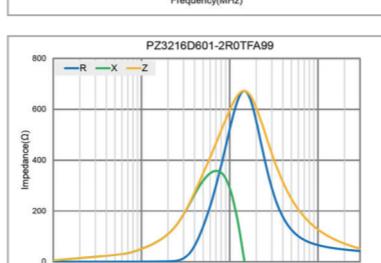
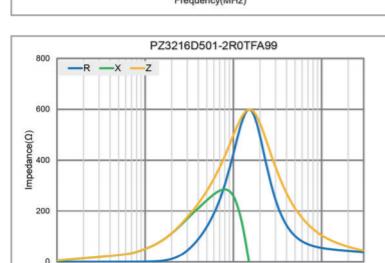
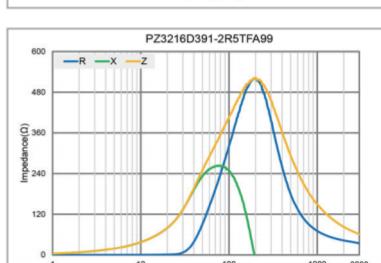
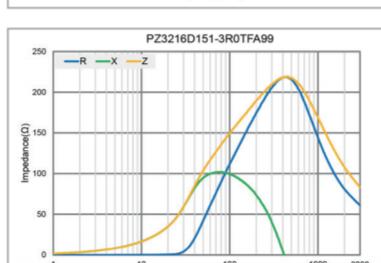
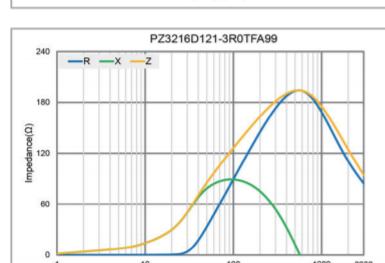
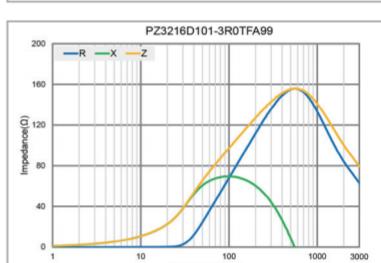
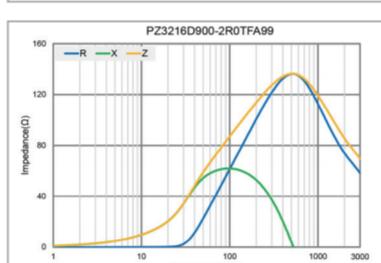
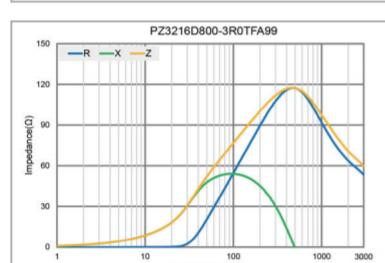
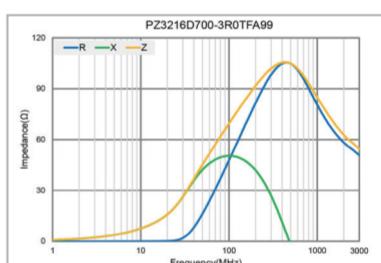
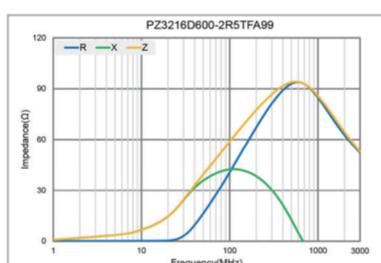
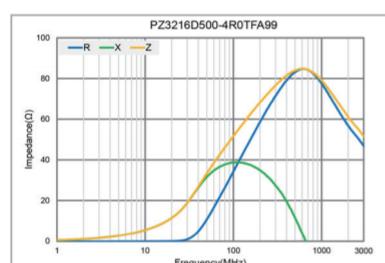
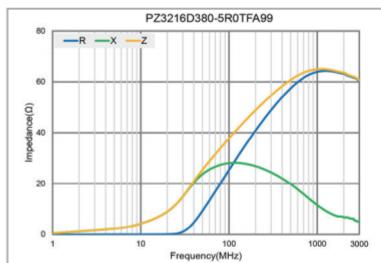
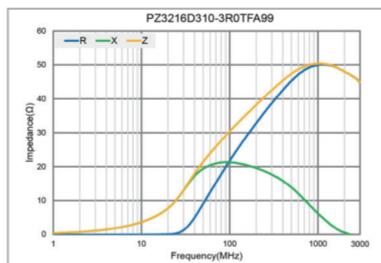
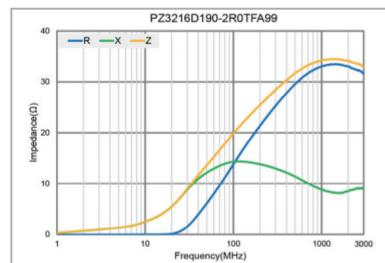
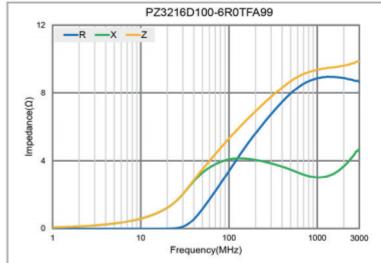
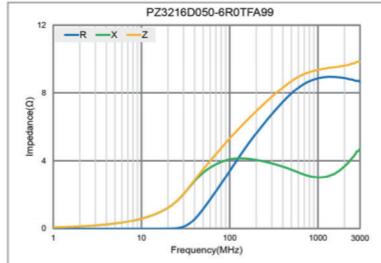
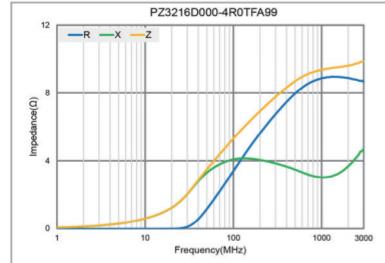
#### PZ3216 TYPE



## 电气特性

### Detail Electrical Characteristics

PZ3216 TYPE



Multilayer Chip Ferrite Bead

Wire Wound Ferrite Bead

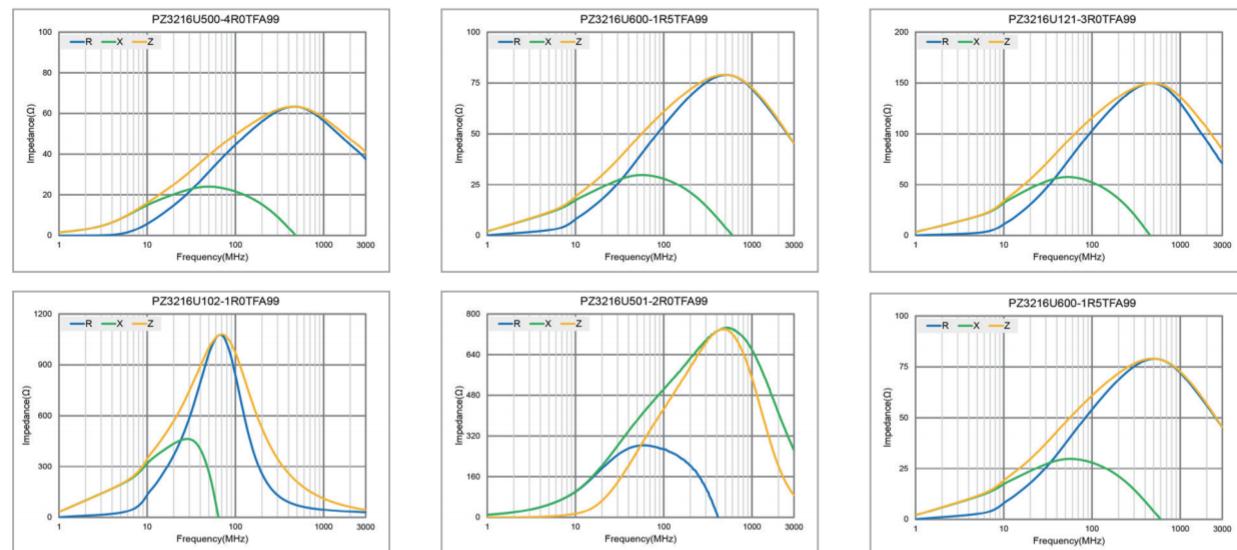
Multilayer Chip Common Mode Filter

Wire Wound Chip Common Mode Choke for Signal Line

## 电气特性

### Detail Electrical Characteristics

#### PZ3216 TYPE



#### PZ4516 TYPE

