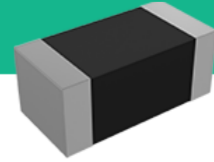


# Multilayer Chip Ferrite Bead – HPZ Series

Operating temp. : -55°C ~ +125°C



## FEATURES

- ◆ Internal silver printed layers and magnetic shielded structures to minimize crosstalk.
- ◆ Perfect effect for EMI suppression at high frequency ( $\geq 1\text{GHz}$ ).
- ◆ Low DC resistance suitable for large current signals.
- ◆ Four types material and wide range of impedance values for various applications.

## APPLICATIONS

- ◆ High frequency noise suppression in electric equipments such as computers and peripheral devices, residential gateway, LCD TVs, communication equipments, OA equipments, etc.

## PRODUCT IDENTIFICATION

1 HPZ	2 1608	3 D	4 471	5 -R70	6 T	7 F	8 □□□
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1 Type	
HPZ	Chip Ferrite Bead For High Frequency and Large Current

2 External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8

3 Material Code	
G, D, E, U	

4 Nominal Impedance	
Example	Nominal Value
471	470Ω
102	1000Ω

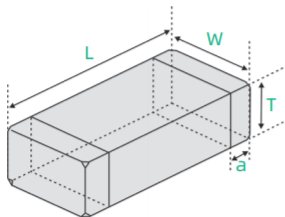
5 Rated Current	
R70	0.7A
1R0	1.0A

7 Hazardous Substance Free Products	
F	

6 Packing	
T	Tape & Reel

8 Design Code	
□□□	Design Code
* Standard Product Is Blank	

## SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
HPZ1005 [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]
HPZ1608 [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]

**SPECIFICATIONS** HPZ1005 TYPE

Part Number	Impedance		Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz	@1GHz Min.			
Units	Ω		Ω	mA	mm [inch]
Symbol	Z		DCR	I <sub>r</sub>	T
HPZ1005D121-R60TF	120±25%	100	0.25	600	0.5±0.15 [.020±.006]
HPZ1005D221-R50TF	220±25%	300	0.38	500	
HPZ1005U121-R60TF	120±25%	100	0.25	600	
HPZ1005U121-1R1TF	120±25%	100	0.13	1100	
HPZ1005U221-R50TF	220±25%	200	0.38	500	
HPZ1005U221-R70TF	220±25%	250	0.25	700	

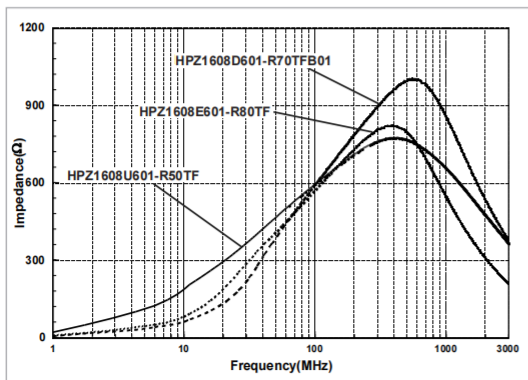
HPZ1608 TYPE

Part Number	Impedance		Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz	@1GHz Min.			
Units	Ω		Ω	mA	mm [inch]
Symbol	Z		DCR	I <sub>r</sub>	T
HPZ1608G121-R90TFB01	120±25%	500	0.13	900	0.8±0.15 [.031±.006]
HPZ1608D121-1R5TF	120±25%	200	0.07	1500	
HPZ1608D151-R80TF	150±25%	200	0.20	800	
HPZ1608D151-1R5TF	150±25%	200	0.07	1500	
HPZ1608D221-R60TF	220±25%	300	0.25	600	
HPZ1608D221-1R2TF	220±25%	300	0.12	1200	
HPZ1608D331-R90TFB01	330±25%	380	0.15	900	
HPZ1608D391-R70TF	390±25%	600	0.18	700	
HPZ1608D471-R70TFB02	470±25%	550	0.22	700	
HPZ1608D601-R70TFB01	600±25%	750	0.24	700	
HPZ1608D102-R60TF	1000±25%	1000	0.35	600	
HPZ1608E601-R80TF	600±25%	500	0.25	800	
HPZ1608E102-R60TF	1000±25%	600	0.35	600	
HPZ1608E152-R50TF	1500±25%	1000	0.50	500	
HPZ1608U101-R80TF	100±25%	100	0.20	800	
HPZ1608U101-2R0TF	100±25%	100	0.055	2000	
HPZ1608U121-2R0TF	120±25%	110	0.055	2000	
HPZ1608U221-R60TF	220±25%	220	0.25	600	
HPZ1608U471-R50TF	470±25%	400	0.32	500	
HPZ1608U601-R50TF	600±25%	450	0.35	500	
HPZ1608U102-R15TF	1000±25%	750	0.90	150	

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

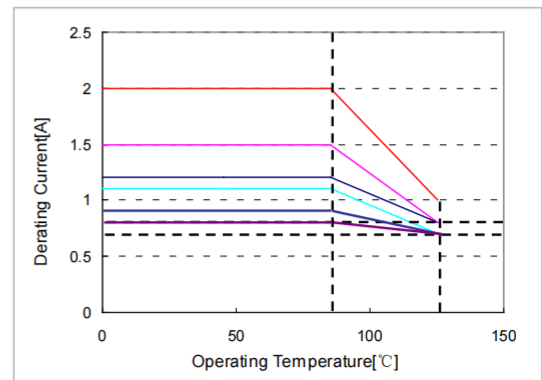
**TYPICAL ELECTRICAL CHARACTERISTICS**

D, E, U Material Comparison



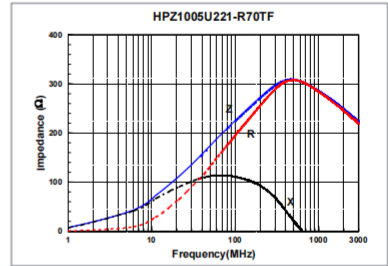
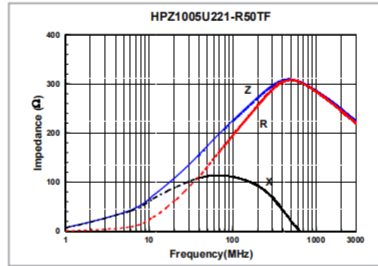
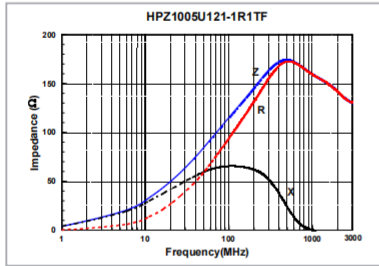
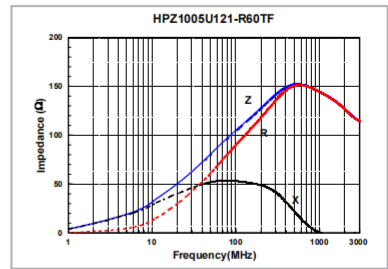
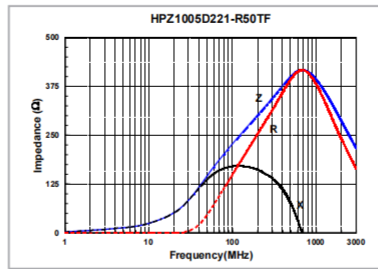
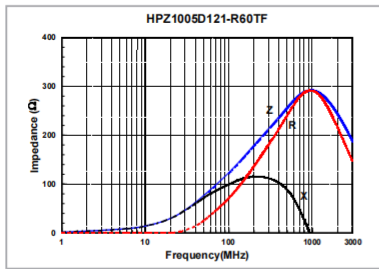
Rated Current

When operating temperatures exceed +85 °C , derating of current is necessary for chip ferrite beads for which rated current is 800mA and over. Please apply the derating curve shown in chart according to the operating temperature.

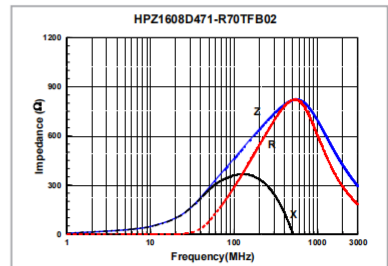
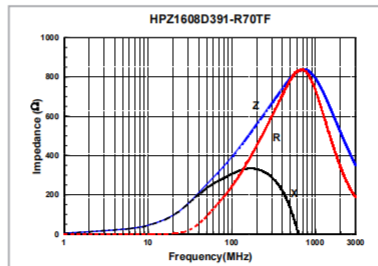
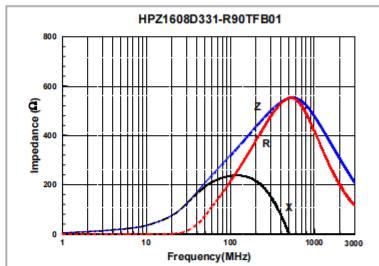
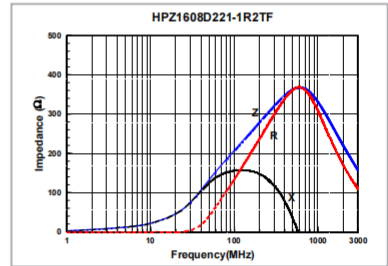
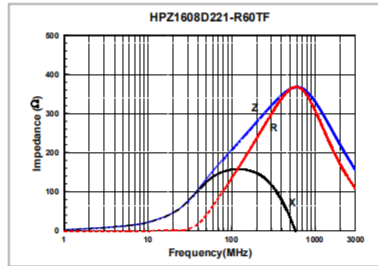
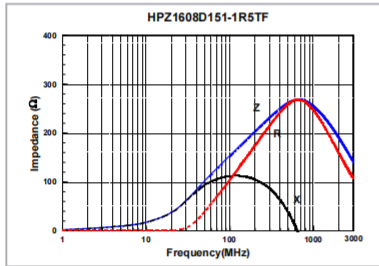
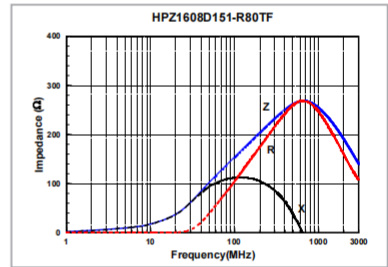
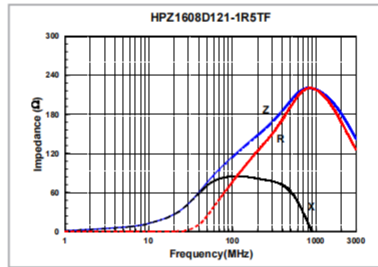
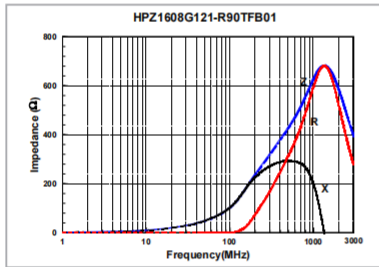


**DETAIL ELECTRICAL CHARACTERISTICS**

**HPZ1005 TYPE**

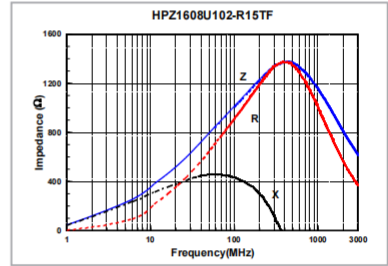
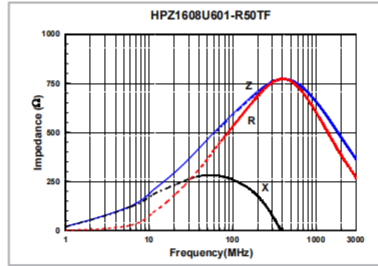
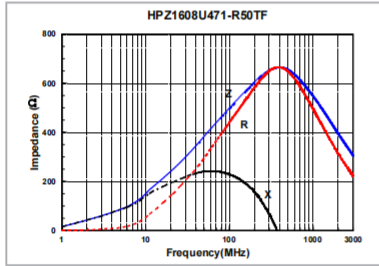
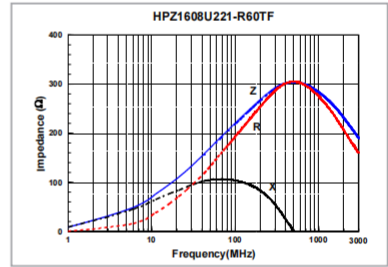
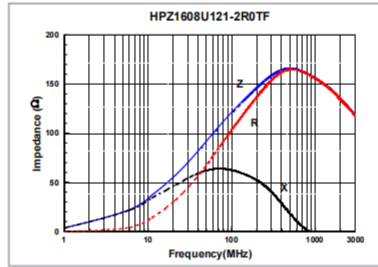
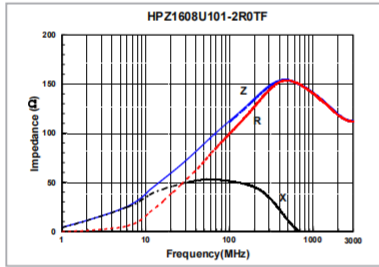
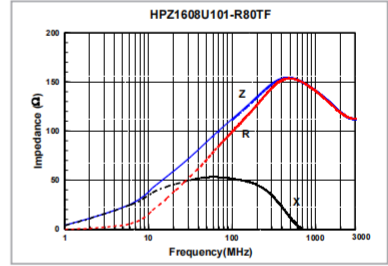
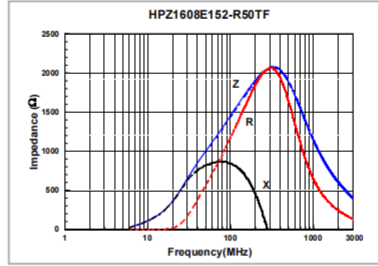
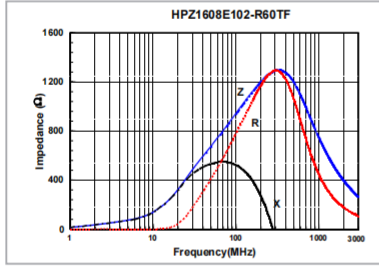
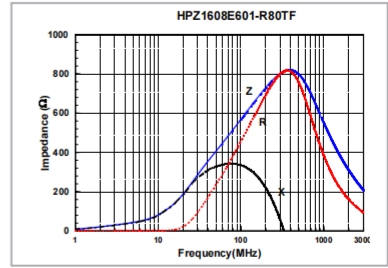
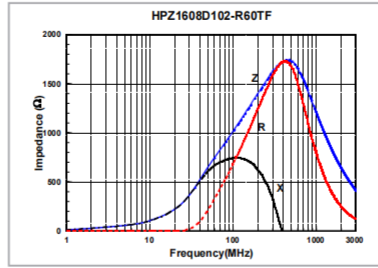
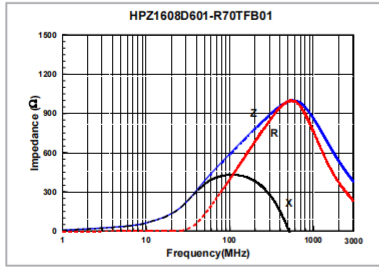


**HPZ1608 TYPE**



**DETAIL ELECTRICAL CHARACTERISTICS**

**HPZ1608 TYPE**



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