

Multilayer Chip Ferrite Bead – GZ-C Series



Operating Temp ◆ -55℃ ~+125℃

Features

- ◆ Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- ◆ Can be used in a wide range of frequency (from dozens of MHz to hundreds of MHz) to suppress EMI
- ◆ Smaller DC resistance and large rate current than GZ series

Applications ◆ Noise suppression for low speed signal of electric equipments such as computers and peripheral devices, smart wearable device, LCD TVs, communication equipments, OA equipments, etc.

Product Identification

1	2	3	4	5	6	7
GZ	1005	D	121	C	T	F

1	Type	
	GZ	Chip Ferrite Bead for General Use

2	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

3	Material Code	
	D, E, U	

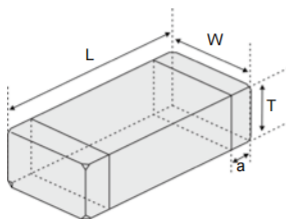
4	Nominal Impedance	
	Example	Nominal Value
	300	30Ω
	121	120Ω
	102	1000Ω

5	Packing	
	T	Tape & Reel

6	Hazardous Substance Free Products	
	F	

7	Internal Code	
	A99	

Shape and Dimensions



Unit: mm [inch]

Type	L	W	T	a
GZ0603 [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]
GZ1005 [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]
GZ1608 [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

GZ0603-C TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	Ω	mA	mm [inch]
Symbol	Z	Freq.	DCR	I _r	T
GZ0603D600CTF	60 $\pm$ 25%	100	0.3	200	0.3 $\pm$ 0.05 [.012 $\pm$.002]
GZ0603D800CTF	80 $\pm$ 25%	100	0.4	200	
GZ0603D121CTF	120 $\pm$ 25%	100	0.5	200	
GZ0603D241CTF	240 $\pm$ 25%	100	0.8	200	
GZ0603D601CTF	600 $\pm$ 25%	100	1.5	200	
GZ0603D102CTF	1000 $\pm$ 25%	100	2.0	100	

GZ1005-C TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	Ω	mA	mm [inch]
Symbol	Z	Freq.	DCR	I _r	T
GZ1005D400CTF	40 $\pm$ 25%	100	0.12	550	0.5 $\pm$ 0.15 [.020 $\pm$.006]
GZ1005D800CTF	80 $\pm$ 25%	100	0.16	450	
GZ1005D121CTF	120 $\pm$ 25%	100	0.18	400	
GZ1005D241CTF	240 $\pm$ 25%	100	0.30	300	
GZ1005D301CTF	300 $\pm$ 25%	100	0.38	250	
GZ1005D421CTF	420 $\pm$ 25%	100	0.45	250	
GZ1005D471CTF	470 $\pm$ 25%	100	0.45	250	
GZ1005D501CTF	500 $\pm$ 25%	100	0.50	250	
GZ1005D601CTF	600 $\pm$ 25%	100	0.50	250	
GZ1005D751CTF	750 $\pm$ 25%	100	0.65	150	
GZ1005D102CTF	1000 $\pm$ 25%	100	0.70	150	
GZ1005D152CTF	1500 $\pm$ 25%	100	1.15	100	
GZ1005E800CTF	80 $\pm$ 25%	100	0.2	500	
GZ1005E121CTF	120 $\pm$ 25%	100	0.25	500	
GZ1005E241CTF	240 $\pm$ 25%	100	0.40	400	
GZ1005E601CTF	600 $\pm$ 25%	100	0.60	300	
GZ1005U100CTF	0~15	100	0.03	1000	
GZ1005U300CTF	30 $\pm$ 25%	100	0.06	700	
GZ1005U700CTF	70 $\pm$ 25%	100	0.10	700	
GZ1005U121CTF	120 $\pm$ 25%	100	0.20	500	
GZ1005U221CTF	220 $\pm$ 25%	100	0.30	400	
GZ1005U301CTF	300 $\pm$ 25%	100	0.50	300	
GZ1005U421CTF	420 $\pm$ 25%	100	0.52	300	
GZ1005U601CTF	600 $\pm$ 25%	100	0.55	300	
GZ1005U102CTF	1000 $\pm$ 25%	100	0.58	300	

GZ1608-C TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	Ω	mA	mm [inch]
Symbol	Z	Freq.	DCR	I _r	T
GZ1608D121CTF	120 $\pm$ 25%	100	0.20	500	0.8 $\pm$ 0.15 [.031 $\pm$.006]
GZ1608D241CTF	240 $\pm$ 25%	100	0.30	500	
GZ1608D301CTF	300 $\pm$ 25%	100	0.35	500	
GZ1608D471CTF	470 $\pm$ 25%	100	0.40	500	
GZ1608D601CTF	600 $\pm$ 25%	100	0.40	500	

Specifications

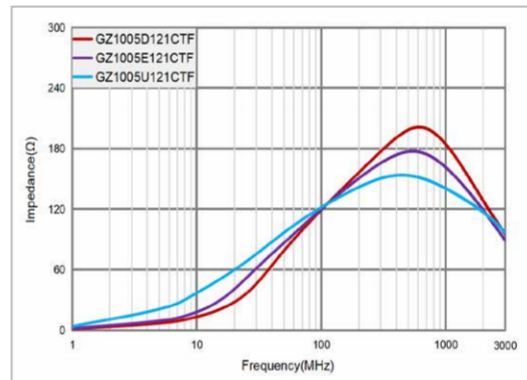
GZ1608-C TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	Ω	mA	mm [inch]
Symbol	Z	Freq.	DCR	I _r	T
GZ1608D102CTF	1000 $\pm$ 25%	100	0.50	400	0.8 $\pm$ 0.15 [.031 $\pm$.006]
GZ1608D152CTF	1500 $\pm$ 25%	100	0.60	300	
GZ1608E121CTF	120 $\pm$ 25%	100	0.20	500	
GZ1608E102CTF	1000 $\pm$ 25%	100	0.50	400	
GZ1608U600CTF	60 $\pm$ 25%	100	0.10	800	
GZ1608U800CTF	80 $\pm$ 25%	100	0.10	600	
GZ1608U121CTF	120 $\pm$ 25%	100	0.18	500	
GZ1608U151CTF	150 $\pm$ 25%	100	0.25	500	
GZ1608U221CTF	220 $\pm$ 25%	100	0.25	500	
GZ1608U301CTF	300 $\pm$ 25%	100	0.25	500	
GZ1608U471CTF	470 $\pm$ 25%	100	0.35	500	
GZ1608U601CTF	600 $\pm$ 25%	100	0.38	500	
GZ1608U102CTF	1000 $\pm$ 25%	100	0.50	400	

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

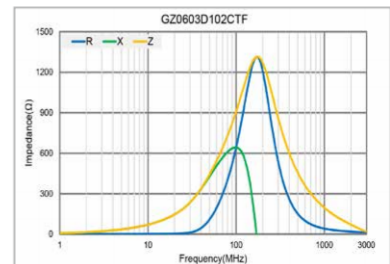
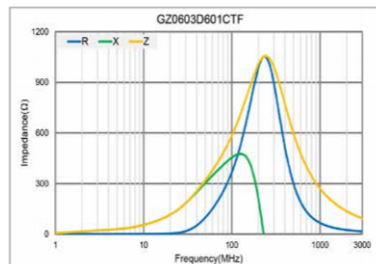
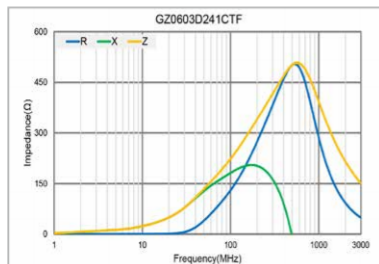
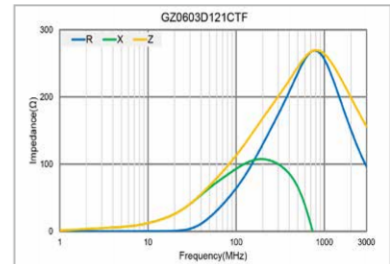
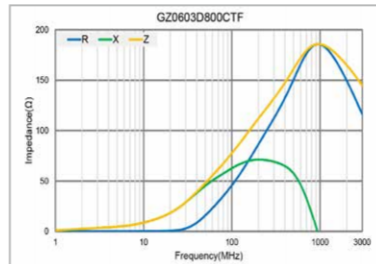
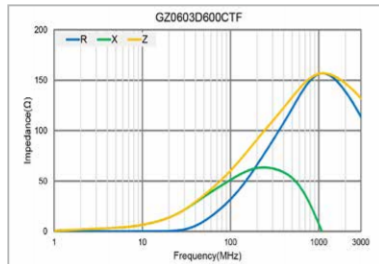
Typical Electrical Characteristics

D, E, U Material Comparison



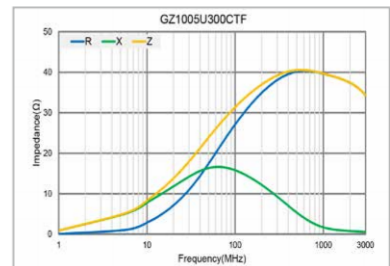
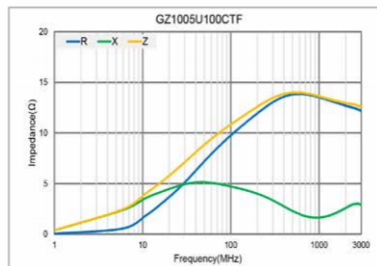
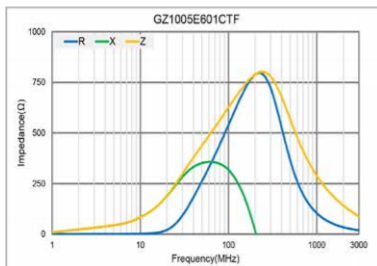
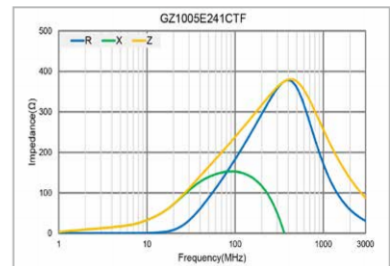
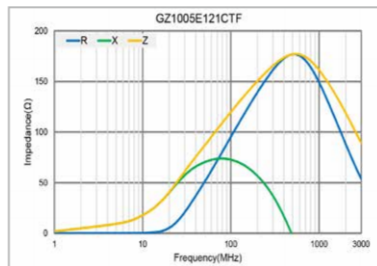
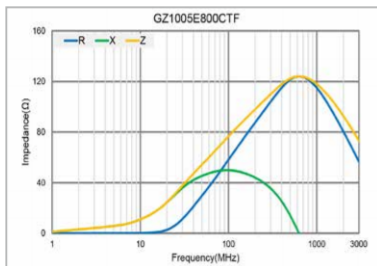
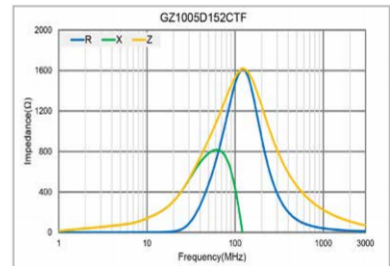
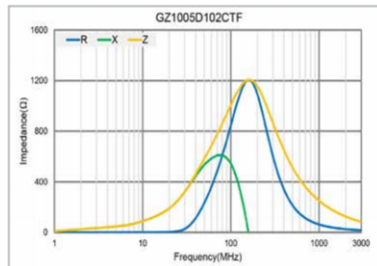
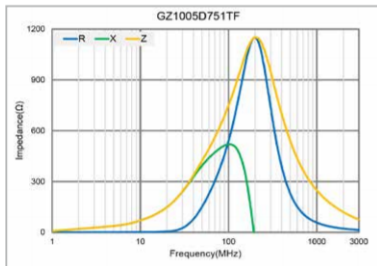
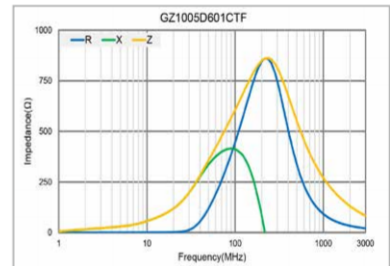
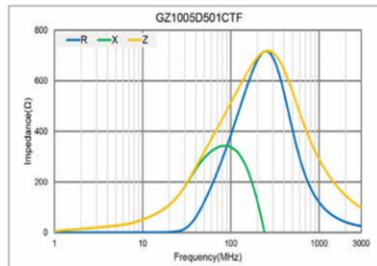
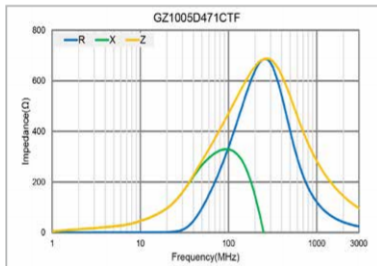
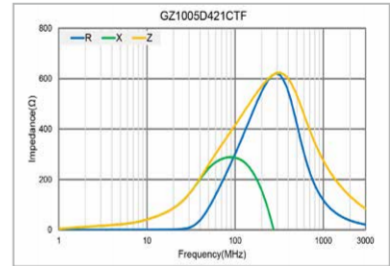
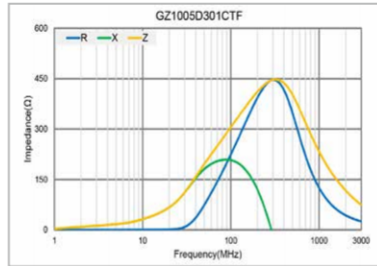
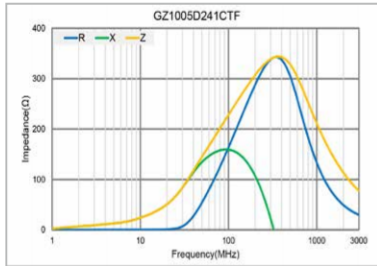
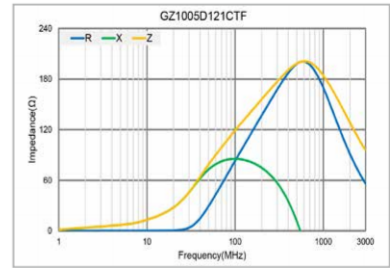
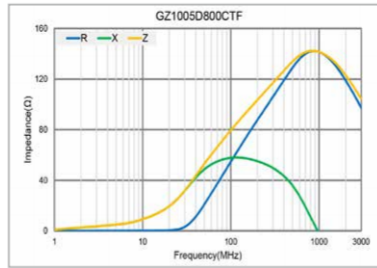
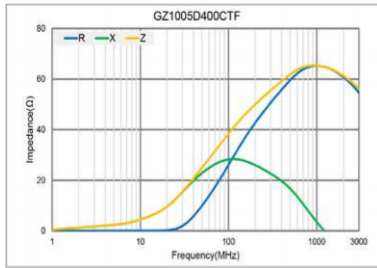
Detail Electrical Characteristics

GZ0603-C TYPE



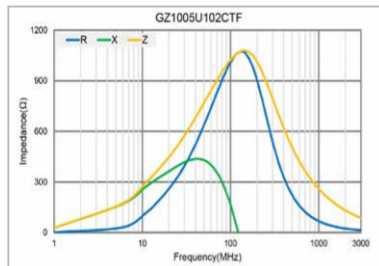
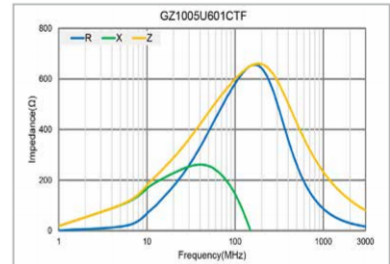
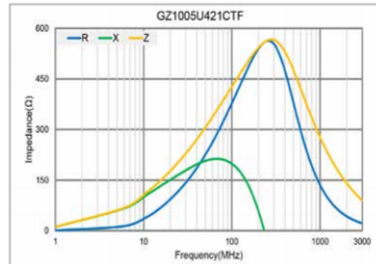
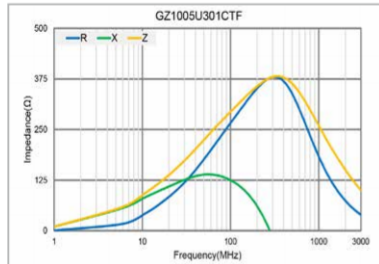
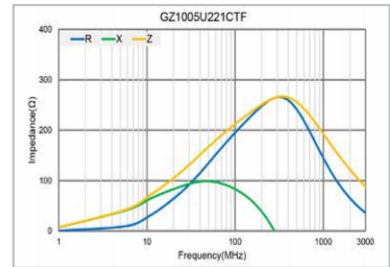
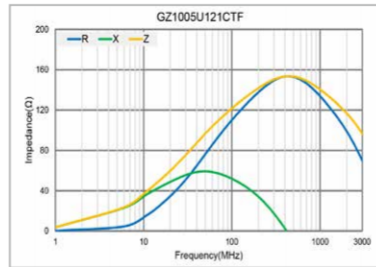
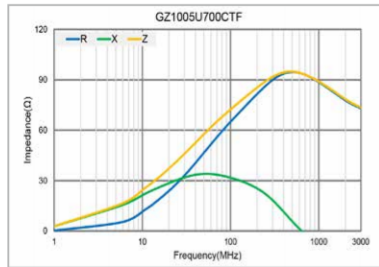
Detail Electrical Characteristics

GZ1005-C TYPE

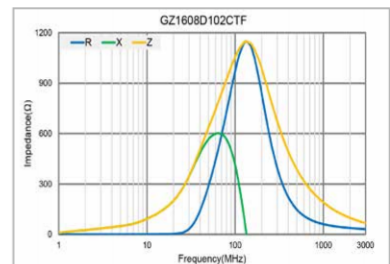
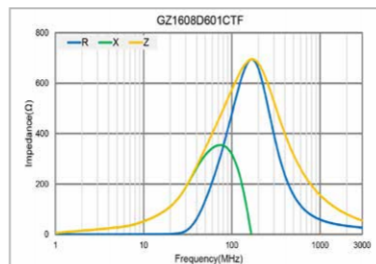
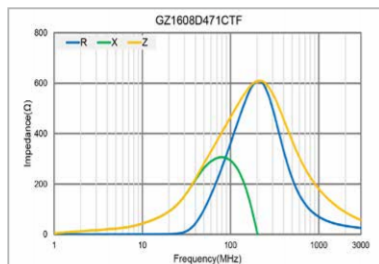
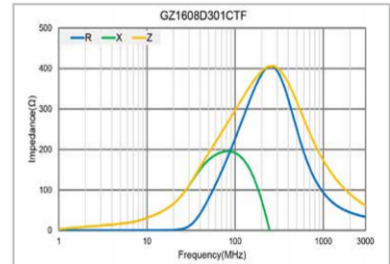
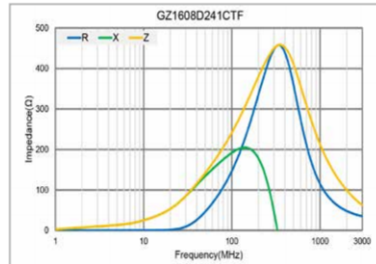
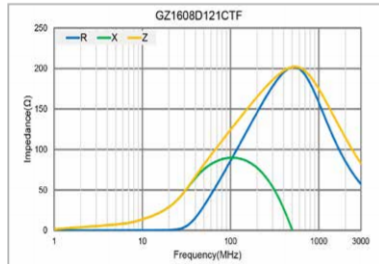


Detail Electrical Characteristics

GZ1005-C TYPE



GZ1608-C TYPE



Detail Electrical Characteristics

GZ1608-C TYPE

