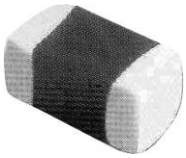
Multilayer Chip Ferrite Bead – SZ-C Series

Operating Temp. : -55℃~+125℃



FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- It has sharp impedance characteristics at desirable frequency and does not affect the signal frequency
- Smaller DC resistance and larger rate current than SZ series

APPLICATIONS

- Noise suppression for high speed signal of electric equipments such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.

PRODUCT IDENTIFICATION

SZ	1608	G	121	C	T	F
①	②	③	④	⑤	⑥	⑦

①

Type	
SZ	Chip Ferrite Bead For High Speed

②

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

③

Material Code
G, K

④

Nominal Impedance	
Example	Nominal Value
600	60Ω
121	120Ω

⑤

Feature Code
C

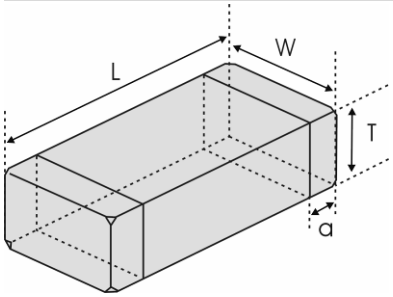
⑥

Packing	
T	Tape & Reel

⑦

Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
SZ1005 [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]
SZ1608 [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]

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SPECIFICATIONS

SZ1005-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	Ir	T
SZ1005G050CTF	0~15	100	0.08	600	0.5±0.15 [.020±.006]
SZ1005G221CTF	220±25%	100	0.60	250	
SZ1005K750CTF	75±25%	100	0.20	600	
SZ1005K121CTF	120±25%	100	0.30	400	
SZ1005K221CTF	220±25%	100	0.40	300	
SZ1005K301CTF	300±25%	100	0.55	300	
SZ1005K471CTF	470±25%	100	0.60	200	
SZ1005K601CTF	600±25%	100	0.65	200	
SZ1005K102CTF	1000±25%	100	0.90	200	
SZ1005K152CTF	1500±25%	100	1.20	100	
SZ1005K182CTF	1800±25%	100	1.40	100	

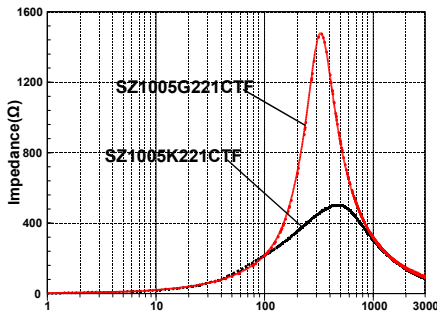
SZ1608-C TYPE

Part Number	Impedance	Z Test Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	Ω	MHz	Ω	mA	mm [inch]
Symbol	Z	Freq.	DCR	Ir	T
SZ1608G600CTF	60±25%	100	0.25	800	0.8±0.15 [.031±.006]
SZ1608G121CTF	120±25%	100	0.30	700	
SZ1608G221CTF	220±25%	100	0.45	600	
SZ1608G331CTF	330±25%	100	0.58	550	
SZ1608K601CTF	600±25%	100	0.60	300	
SZ1608K102CTF	1000±25%	100	0.70	250	
SZ1608K152CTF	1500±25%	100	0.75	250	
SZ1608K182CTF	1800±25%	100	0.85	200	
SZ1608K222CTF	2200±25%	100	0.90	200	
SZ1608K252CTF	2500±25%	100	1.00	200	

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

TYPICAL ELECTRICAL CHARACTERISTICS

G, K Material Comparison



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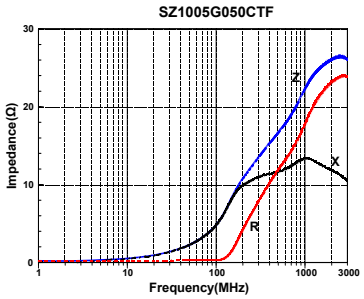
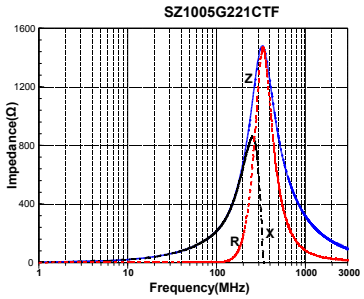
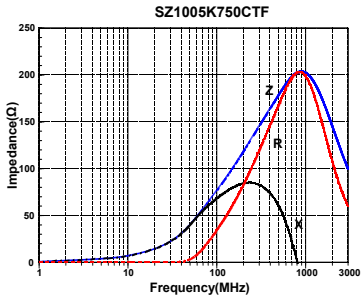
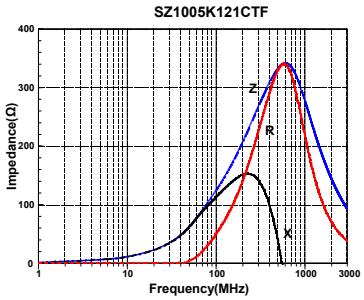
DETAIL ELECTRICAL CHARACTERISTICS

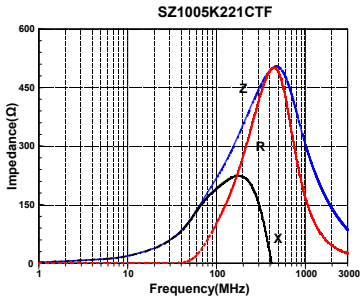
SZ1005-C TYPE

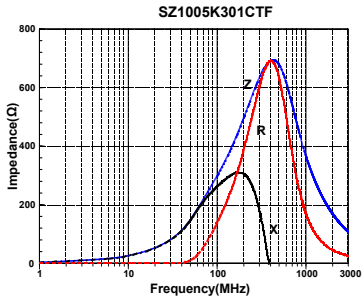


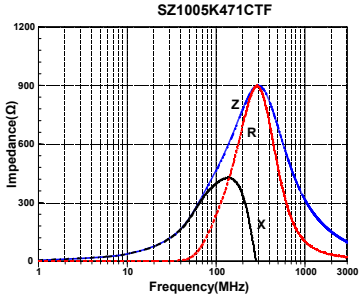


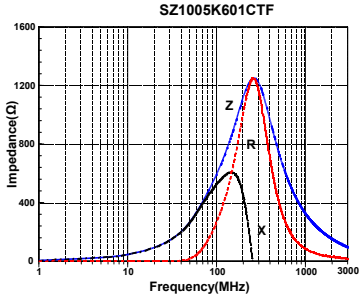


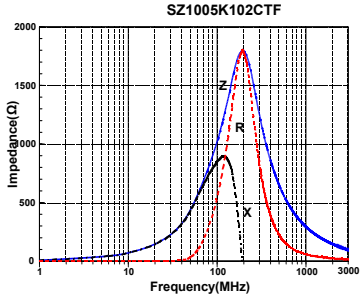


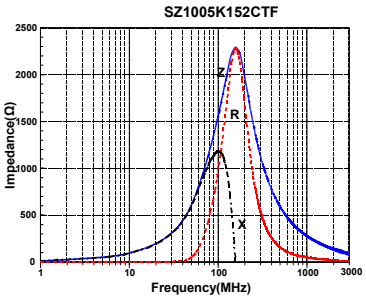


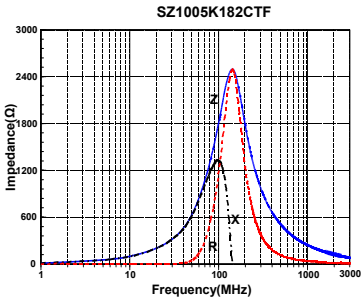




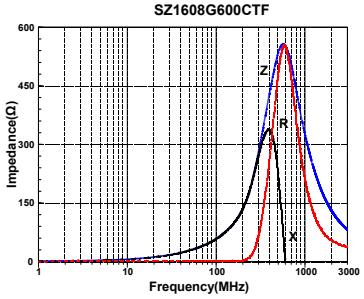


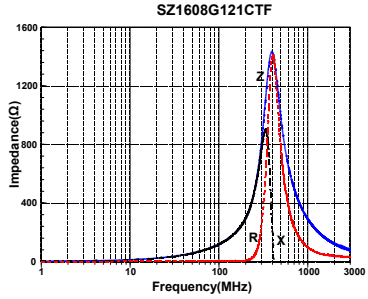


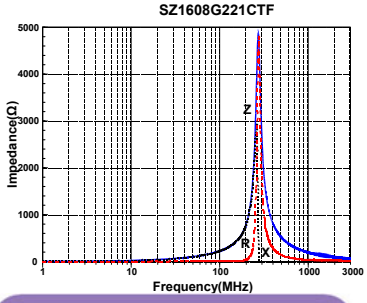




SZ1608-C TYPE







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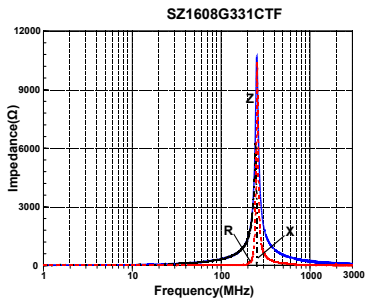
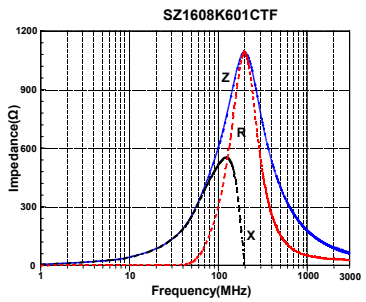
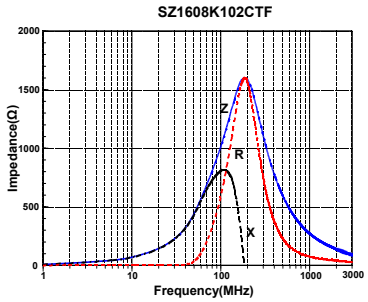
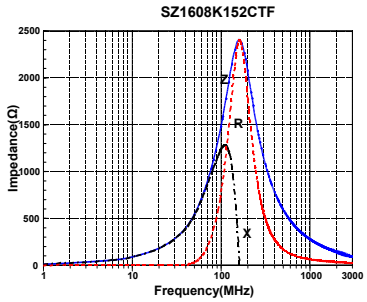
DETAIL ELECTRICAL CHARACTERISTICS

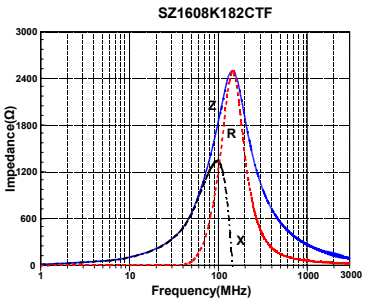
SZ1608-C TYPE

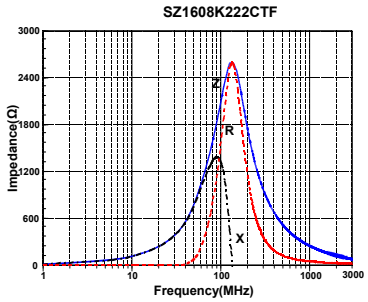


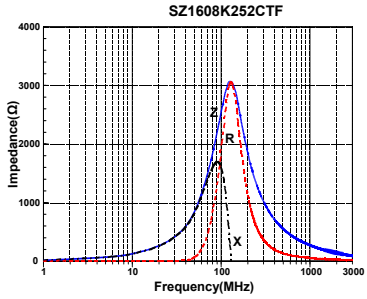












PACKAGING

Type	Tape Width	Reel Diameter	Quantity (pcs)
1005[0402]	8mm	178mm	10K
1608[0603]	8mm	178mm	4K

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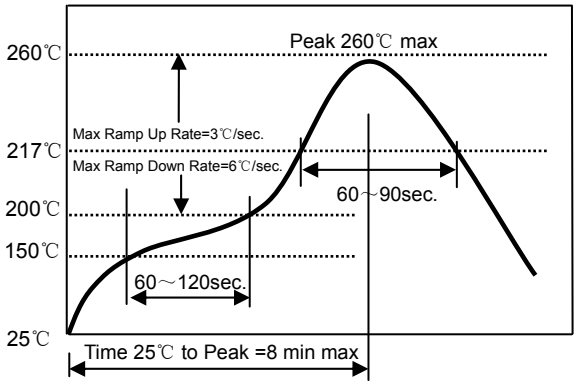
RECOMMENDED SOLDERING TECHNOLOGIES

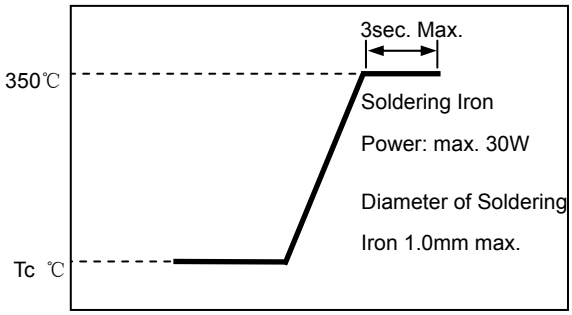
- **Re-flowing Profile:**
  - △ *Preheat condition: 150 ~200 ℃/60~120sec.*
  - △ *Allowed time above 217 ℃: 60~90sec.*
  - △ *Max temp: 260 ℃*
  - △ *Max time at max temp: 10sec.*
  - △ *Solder paste: Sn/3.0Ag/0.5Cu*
  - △ *Allowed Reflow time: 2x max*

  [Note: The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.]



- **Iron Soldering Profile.**
  - △ Iron soldering power: Max.30W
  - △ Pre-heating: 150 ℃/60 sec.
  - △ Soldering Tip temperature: 350℃ Max.
  - △ Soldering time: 3sec Max.
  - △ Solder paste: Sn/3.0Ag/0.5Cu
  - △ Max.1 times for iron soldering

  [Note: Take care not to apply the tip of the soldering iron to the terminal electrodes.]



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