

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, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.

PRODUCT IDENTIFICATION

GZ

①

1005

②

D

③

121

④

C

⑤

T

⑥

F

⑦

①

Type	
GZ	Chip Ferrite Bead for General Use

②

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

③

Material Code
D, E, U

④

Nominal Impedance	
Example	Nominal Value
400	40Ω
121	120Ω
102	1000Ω

⑤

Feature Code
C

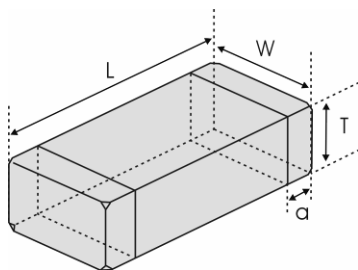
⑥

Packing	
T	Tape & Reel

⑦

Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
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]

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SPECIFICATIONS

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±25%	100	0.12	550	0.5±0.15 [.020±.006]
GZ1005D800CTF	80±25%	100	0.16	450	
GZ1005D121CTF	120±25%	100	0.18	400	
GZ1005D241CTF	240±25%	100	0.30	300	
GZ1005D301CTF	300±25%	100	0.38	250	
GZ1005D421CTF	420±25%	100	0.45	250	
GZ1005D471CTF	470±25%	100	0.45	250	
GZ1005D501CTF	500±25%	100	0.50	250	
GZ1005D601CTF	600±25%	100	0.50	250	
GZ1005D751CTF	750±25%	100	0.65	150	
GZ1005D102CTF	1000±25%	100	0.70	150	
GZ1005D152CTF	1500±25%	100	1.15	100	
GZ1005E800CTF	80±25%	100	0.2	500	
GZ1005E121CTF	120±25%	100	0.25	500	
GZ1005E241CTF	240±25%	100	0.40	400	
GZ1005E601CTF	600±25%	100	0.60	300	
GZ1005U100CTF	0~15	100	0.03	1000	
GZ1005U300CTF	30±25%	100	0.06	700	
GZ1005U700CTF	70±25%	100	0.10	700	
GZ1005U121CTF	120±25%	100	0.20	500	
GZ1005U221CTF	220±25%	100	0.30	400	
GZ1005U301CTF	300±25%	100	0.50	300	
GZ1005U421CTF	420±25%	100	0.52	300	
GZ1005U601CTF	600±25%	100	0.55	300	
GZ1005U102CTF	1000±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±25%	100	0.20	500	0.8±0.15 [.031±.006]
GZ1608D241CTF	240±25%	100	0.30	500	
GZ1608D301CTF	300±25%	100	0.35	500	
GZ1608D471CTF	470±25%	100	0.40	500	
GZ1608D601CTF	600±25%	100	0.40	500	
GZ1608D102CTF	1000±25%	100	0.50	400	
GZ1608D152CTF	1500±25%	100	0.60	300	
GZ1608E121CTF	120±25%	100	0.20	500	
GZ1608E102CTF	1000±25%	100	0.50	400	
GZ1608U600CTF	60±25%	100	0.10	800	
GZ1608U800CTF	80±25%	100	0.10	600	
GZ1608U121CTF	120±25%	100	0.18	500	
GZ1608U151CTF	150±25%	100	0.25	500	
GZ1608U221CTF	220±25%	100	0.25	500	
GZ1608U301CTF	300±25%	100	0.25	500	

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SPECIFICATIONS

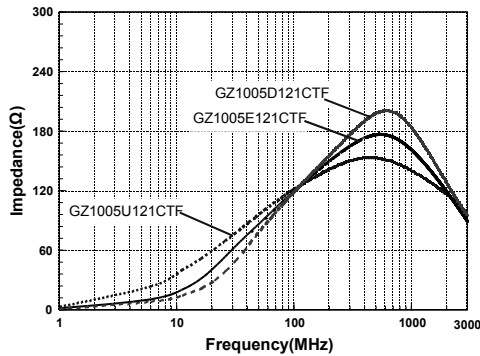
GZ1608-C TYPE

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
GZ1608U471CTF	470±25%	100	0.35	500	0.8±0.15 [.031±.006]
GZ1608U601CTF	600±25%	100	0.38	500	
GZ1608U102CTF	1000±25%	100	0.50	400	

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

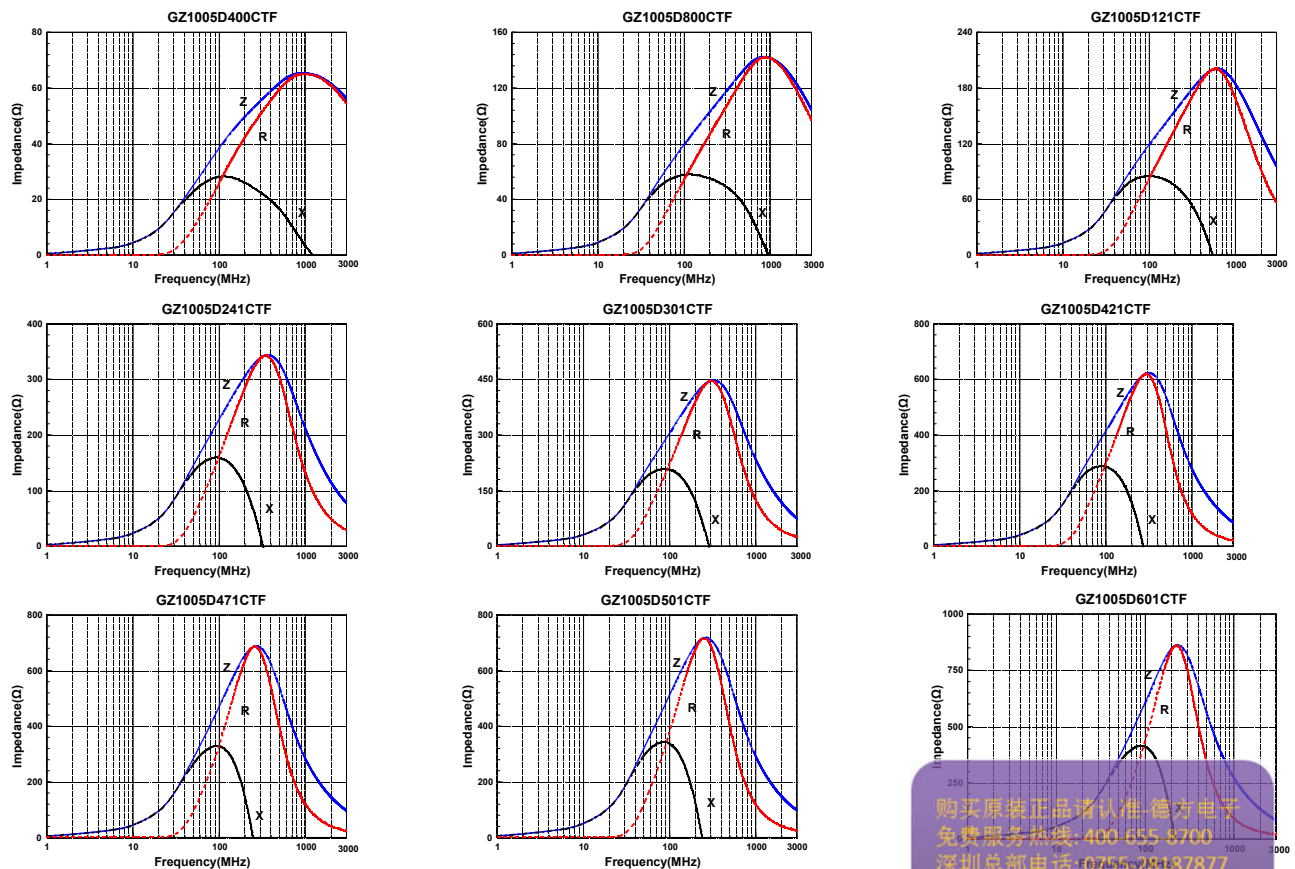
TYPICAL ELECTRICAL CHARACTERISTICS

D, E, U Material Comparison



DETAIL ELECTRICAL CHARACTERISTICS

GZ1005-C TYPE



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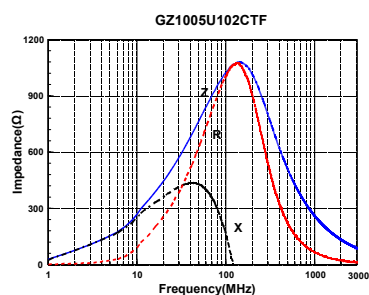
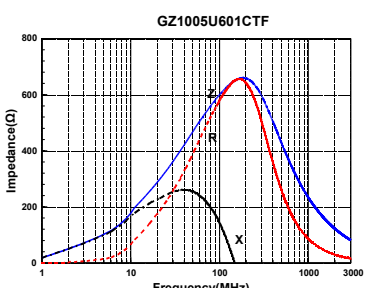
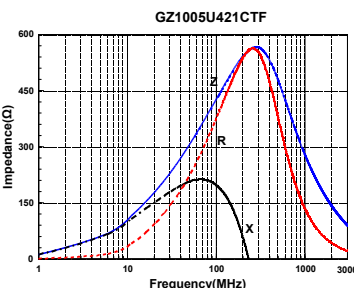
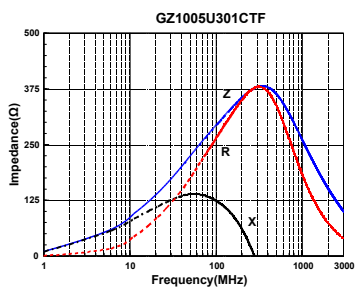
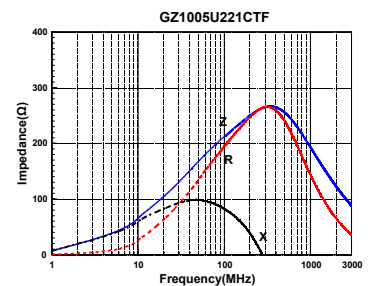
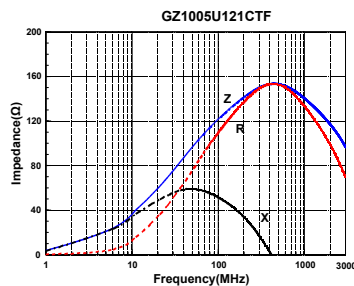
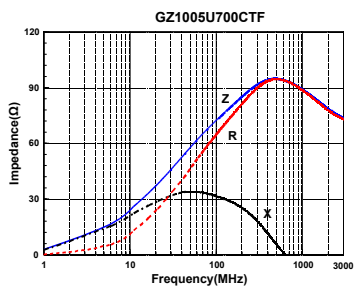
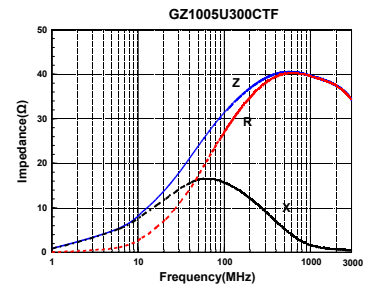
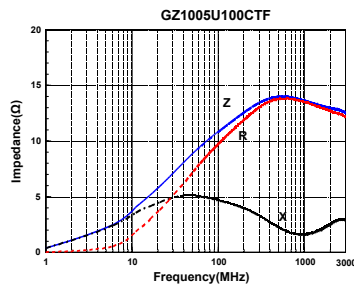
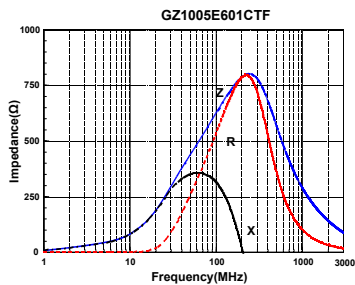
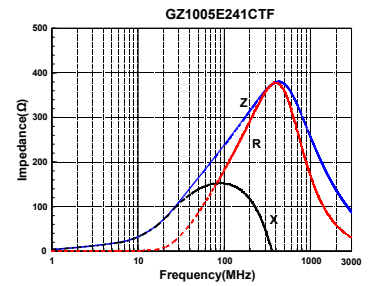
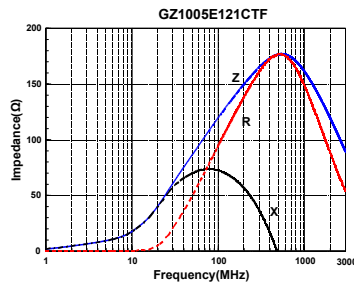
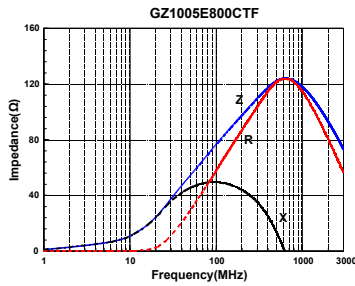
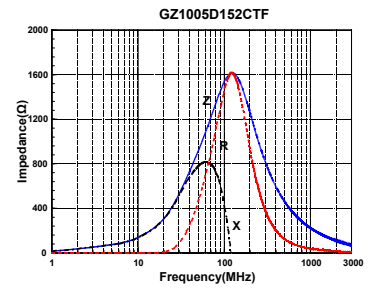
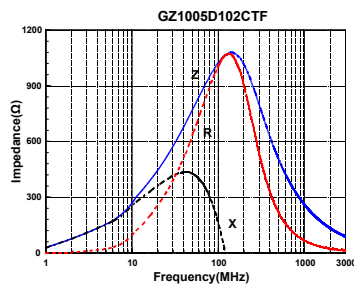
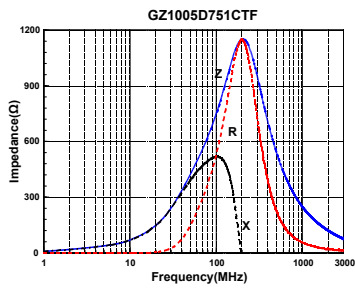
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DETAIL ELECTRICAL CHARACTERISTICS

GZ1005-C TYPE



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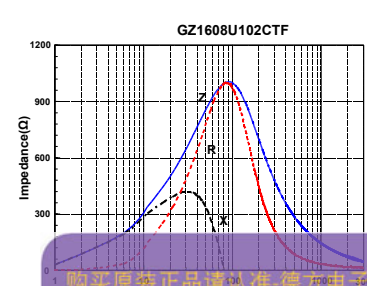
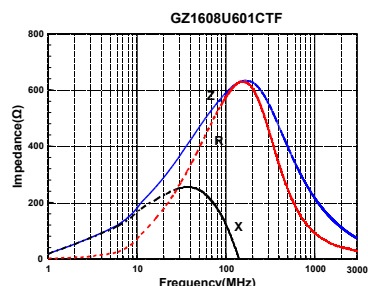
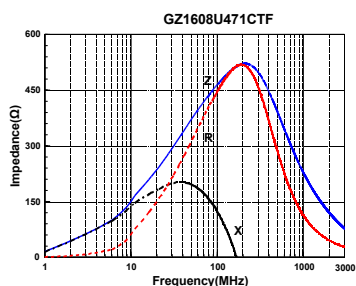
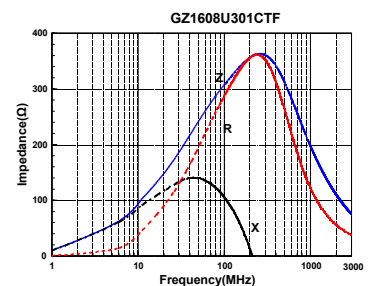
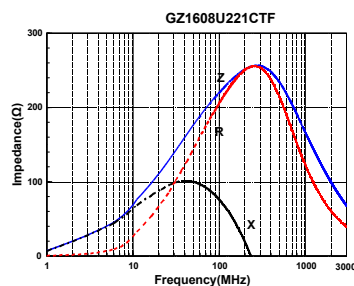
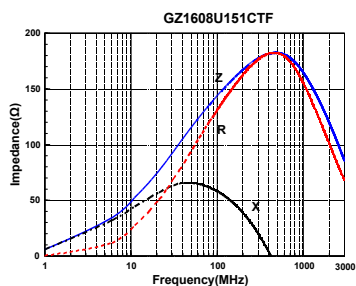
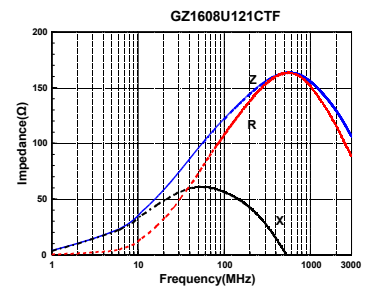
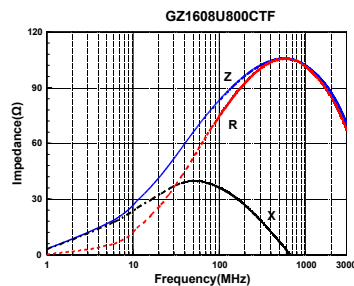
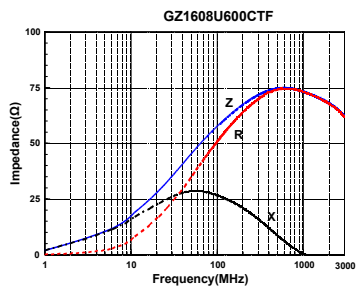
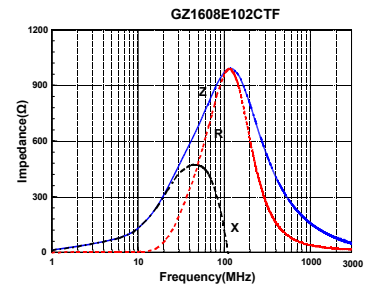
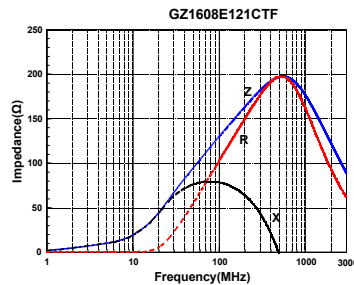
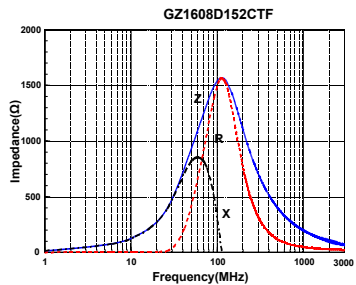
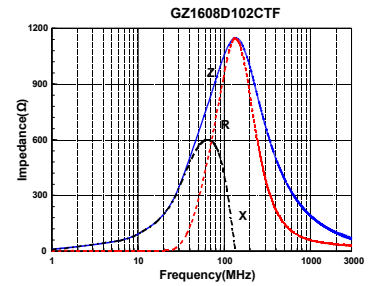
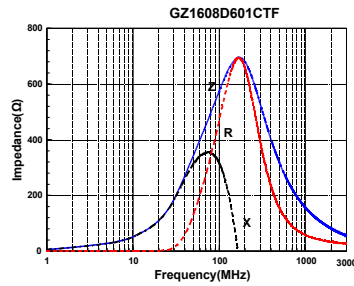
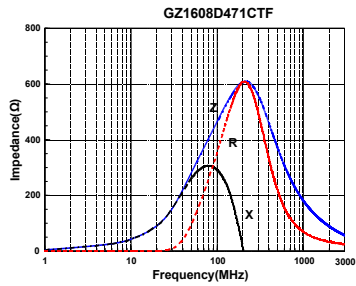
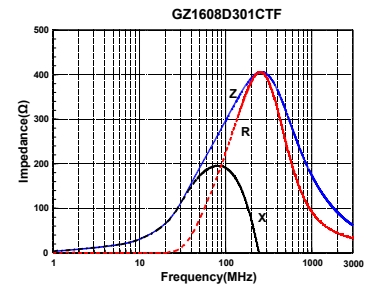
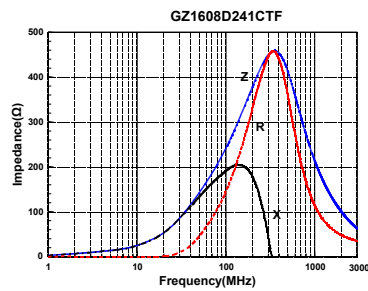
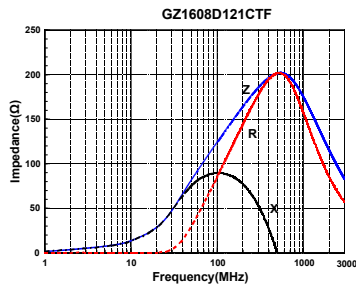
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PACKAGING

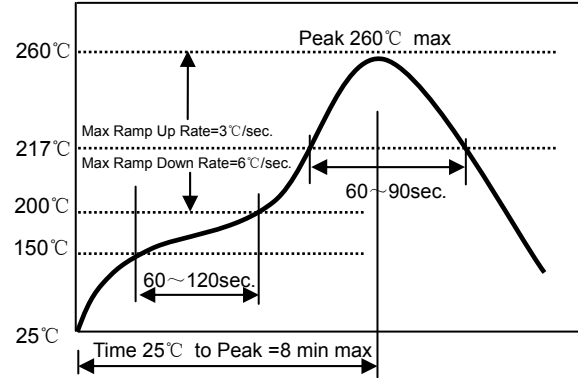
Type	Tape Width	Reel Diameter	Quantity (pcs)
1005[0402]	8mm	178mm	10K
1608[0603]	8mm	178mm	4K

RECOMMENDED SOLDERING TECHNOLOGIES

● Re-flowing Profile:

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

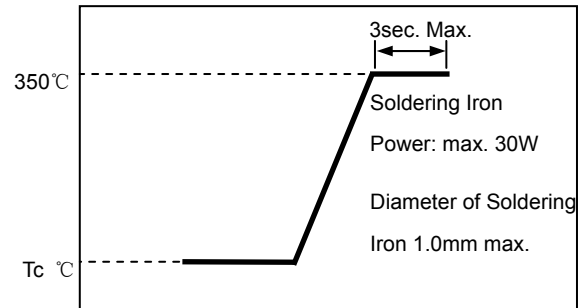
[Note: The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.]



● Iron Soldering Profile.

- △ Iron soldering power: Max.30W
- △ Pre-heating: 150 °C/60 sec.
- △ Soldering Tip temperature: 350°C 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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