

叠层片式铁氧体普通磁珠—CB系列

Multilayer Chip Ferrite Bead – CB Series

Operating Temp.: -55°C ~ +125°C



特征

- 内部印有银电极的叠层结构，铁氧体屏蔽无串扰。
- 在较宽的频率范围（几十 MHz 至几百 MHz）内具有优良的EMI抑制效果。
- 三种铁氧体材料、阻抗范围宽，适用于不同的电路。

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.
- Three types material and wide range of impedance values for various applications.

用途

- 电脑及周边设备、VCR、VCD、DVD、照相机、办公设备等各类电子设备的数字信号的波形、及接口部位的噪声控制。

APPLICATIONS

- Noise suppression in digital equipment such as computer and its peripheral devices, VCR, VCD, DVD, camera, OA equipments, etc.

产品型号

PRODUCT IDENTIFICATION

CB
①

1608
②

D
③

121
④

I
⑤

F
⑥

①

分类 Type	
CB	片式铁氧体普通磁珠 Chip Ferrite Bead for General Use

②

外形尺寸(L×W) (mm) External Dimensions (L×W) (mm)	
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

材料代号 Material Code
D, E, U

④

公称阻抗值 Nominal Impedance	
Example	Nominal Value
300	30Ω
121	120Ω
102	1000Ω

⑤

包装 Packing	
B	散装 Bulk Package
T	编带 Tape & Reel

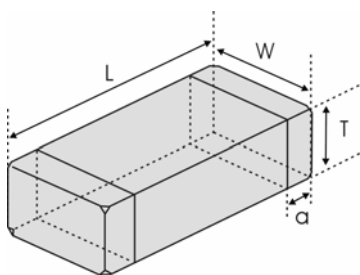
⑥

无有害物质产品 Hazardous Substance Free Products
F

外观尺寸

SHAPE AND DIMENSIONS

Unit: mm [inch]



Type	L	W	T	a
CB1005 [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]
CB1608 [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]
CB2012 [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]
CB3216 [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]

CB1005 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB1005D100	5~15	100	0.05	500	0.5±0.15 [.020±.006]
CB1005D310	31±25%	100	0.20	300	
CB1005D600	60±25%	100	0.30	200	
CB1005D800	80±25%	100	0.35	200	
CB1005D121	120±25%	100	0.40	200	
CB1005D221	220±25%	100	0.45	150	
CB1005D301	300±25%	100	0.50	100	
CB1005D421	420±25%	100	0.60	100	
CB1005D501	500±25%	100	0.80	100	
CB1005D601	600±25%	100	0.90	100	
CB1005D751	750±25%	100	1.00	100	
CB1005D102	1000±25%	100	1.20	100	
CB1005D152	1500±25%	100	1.60	100	
CB1005E800	80±25%	100	0.35	200	
CB1005E121	120±25%	100	0.40	200	
CB1005E241	240±25%	100	0.50	200	
CB1005E601	600±25%	100	0.90	100	
CB1005U100	5~15	100	0.05	500	
CB1005U300	30±25%	100	0.20	300	
CB1005U700	70±25%	100	0.30	200	
CB1005U121	120±25%	100	0.40	200	
CB1005U221	220±25%	100	0.50	100	
CB1005U301	300±25%	100	0.60	100	
CB1005U421	420±25%	100	0.80	100	
CB1005U601	600±25%	100	0.90	100	
CB1005U102	1000±25%	100	1.20	100	

CB1608 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB1608D110	5~15	100	0.05	2000	0.8±0.15 [.031±.006]
CB1608D300	30±25%	100	0.05	2000	
CB1608D600	60±25%	100	0.10	500	
CB1608D800	80±25%	100	0.15	400	
CB1608D101	100±25%	100	0.20	300	
CB1608D121	120±25%	100	0.20	300	
CB1608D221	220±25%	100	0.30	300	
CB1608D301	300±25%	100	0.35	200	
CB1608D471	470±25%	100	0.45	200	
CB1608D601	600±25%	100	0.45	200	
CB1608D751	750±25%	100	0.50	200	
CB1608D102	1000±25%	100	0.60	200	
CB1608D152	1500±25%	100	0.70	150	
CB1608D182	1800±25%	100	0.90	100	
CB1608D202	2000±25%	100	1.20	100	
CB1608D222	2200±25%	100	1.20	100	

CB1608 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB1608E800	80±25%	100	0.15	300	0.8±0.15 [.031±.006]
CB1608E121	120±25%	100	0.20	300	
CB1608E181	180±25%	100	0.30	300	
CB1608E301	300±25%	100	0.35	200	
CB1608E601	600±25%	100	0.45	200	
CB1608E102	1000±25%	100	0.60	200	
CB1608E202	2000±25%	100	1.00	100	
CB1608U100	5-15	100	0.05	2000	
CB1608U300	30±25%	100	0.05	2000	
CB1608U600	60±25%	100	0.10	500	
CB1608U121	120±25%	100	0.20	300	
CB1608U221	220±25%	100	0.30	300	
CB1608U301	300±25%	100	0.35	200	
CB1608U471	470±25%	100	0.40	200	
CB1608U601	600±25%	100	0.50	200	
CB1608U102	1000±25%	100	0.60	200	

CB2012 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB2012D070	5~15	100	0.04	2000	0.85±0.2 [.033±.008]
CB2012D190	19±25%	100	0.04	2000	
CB2012D300	30±25%	100	0.05	1500	
CB2012D800	80±25%	100	0.10	1000	
CB2012D121	120±25%	100	0.15	800	
CB2012D181	180±25%	100	0.18	700	
CB2012D221	220±25%	100	0.20	600	
CB2012D301	300±25%	100	0.20	500	
CB2012D421	420±25%	100	0.30	500	
CB2012D501	500±25%	100	0.30	500	
CB2012D601	600±25%	100	0.30	500	
CB2012D751	750±25%	100	0.35	500	
CB2012D102	1000±25%	100	0.35	500	
CB2012D152	1500±25%	100	0.40	500	
CB2012D202	2000±25%	100	0.50	500	
CB2012E800	80±25%	100	0.10	1000	
CB2012E121	120±25%	100	0.15	800	
CB2012E181	180±25%	100	0.20	600	
CB2012E301	300±25%	100	0.20	500	
CB2012E501	500±25%	100	0.30	500	
CB2012E601	600±25%	100	0.30	500	
CB2012E102	1000±25%	100	0.35	500	
CB2012U100	5-15	100	0.04	2200	
CB2012U170	17±25%	100	0.04	2000	
CB2012U300	30±25%	100	0.05	1500	
CB2012U470	47±25%	100	0.05	1500	
CB2012U700	70±25%	100	0.10	1000	

CB2012 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB2012U121	120±25%	100	0.15	800	0.85±0.2 [.033±.008]
CB2012U221	220±25%	100	0.20	600	
CB2012U301	300±25%	100	0.20	500	
CB2012U421	420±25%	100	0.25	500	
CB2012U601	600±25%	100	0.30	500	
CB2012U102	1000±25%	100	0.40	500	

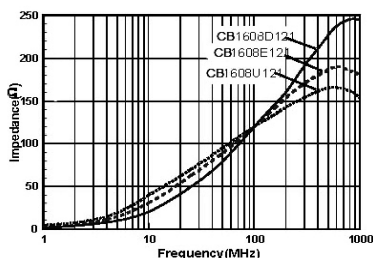
CB3216 TYPE

Part Number 型号	Impedance 阻抗	Z Test Frequency 阻抗的测试频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	Ω	MHz	Ω	mA	mm [inch]
Symbol 符号	Z	Freq.	DCR	I _r	T
CB3216D000	<15	100	0.05	2000	0.85±0.2 [.033±.008]
CB3216D310	31±25%	100	0.05	2000	
CB3216D600	60±25%	100	0.10	1000	
CB3216D800	80±25%	100	0.10	1000	
CB3216D121	120±25%	100	0.10	1000	
CB3216D221	220±25%	100	0.20	600	
CB3216D301	300±25%	100	0.20	600	
CB3216D501	500±25%	100	0.30	600	
CB3216D601	600±25%	100	0.30	600	
CB3216D102	1000±25%	100	0.60	500	
CB3216D122	1200±25%	100	0.60	300	
CB3216U310	31±25%	100	0.05	2000	
CB3216U700	70±25%	100	0.10	1000	
CB3216U301	300±25%	100	0.20	600	
CB3216U601	600±25%	100	0.30	600	

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

电气特性

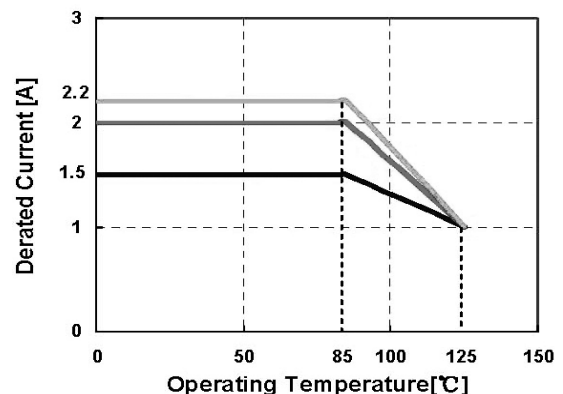
D, E, U Material Comparison



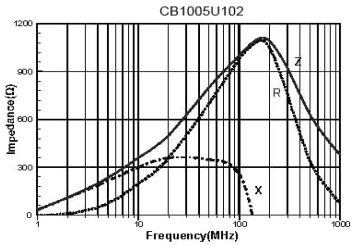
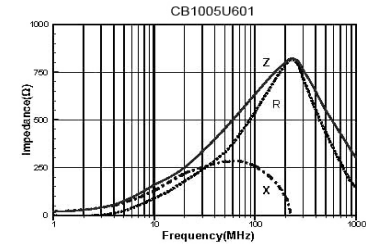
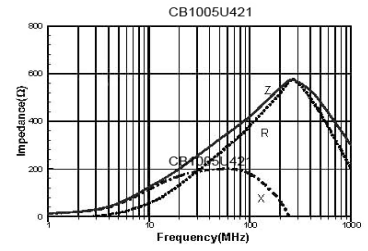
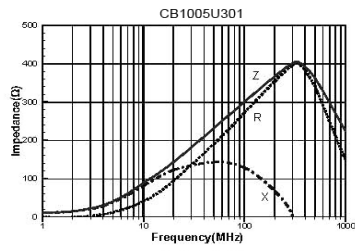
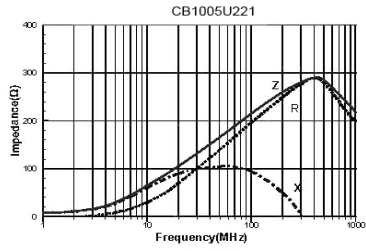
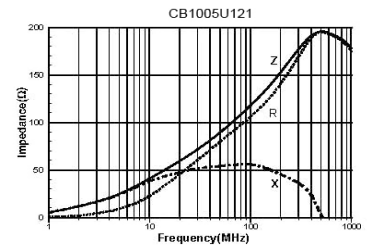
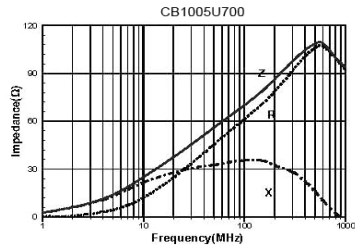
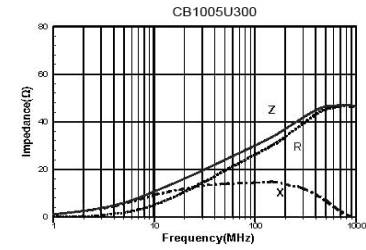
TYPICAL ELECTRICAL CHARACTERISTICS

Rated Current

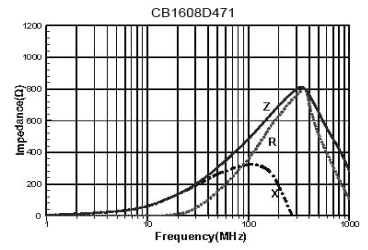
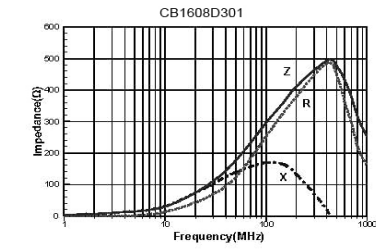
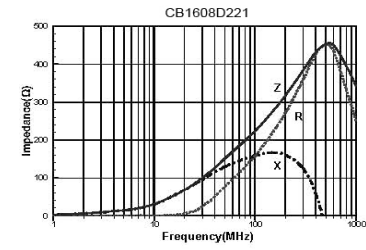
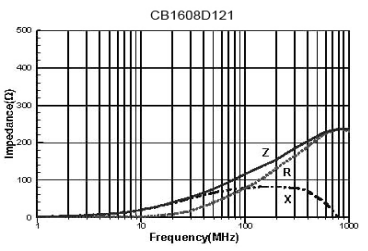
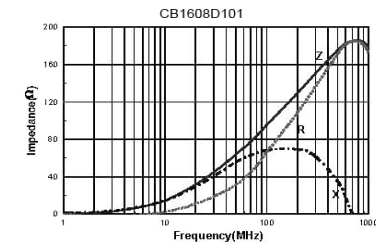
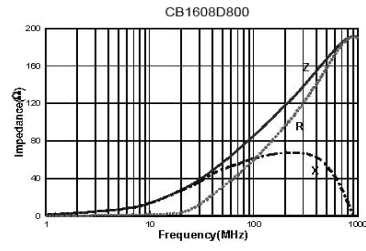
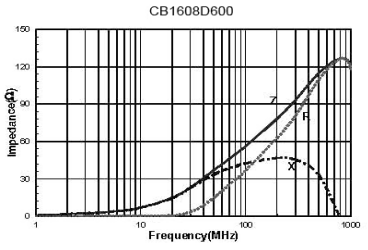
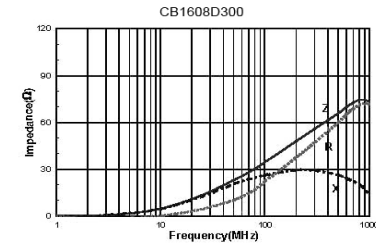
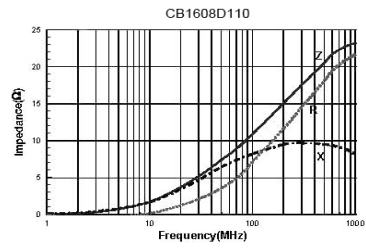
In operating temperatures exceeding +85°C, derating of current is necessary for chip Ferrite Beads for which rated current is 1500mA or over. Please apply the derating curve shown in chart according to the operating temperature.



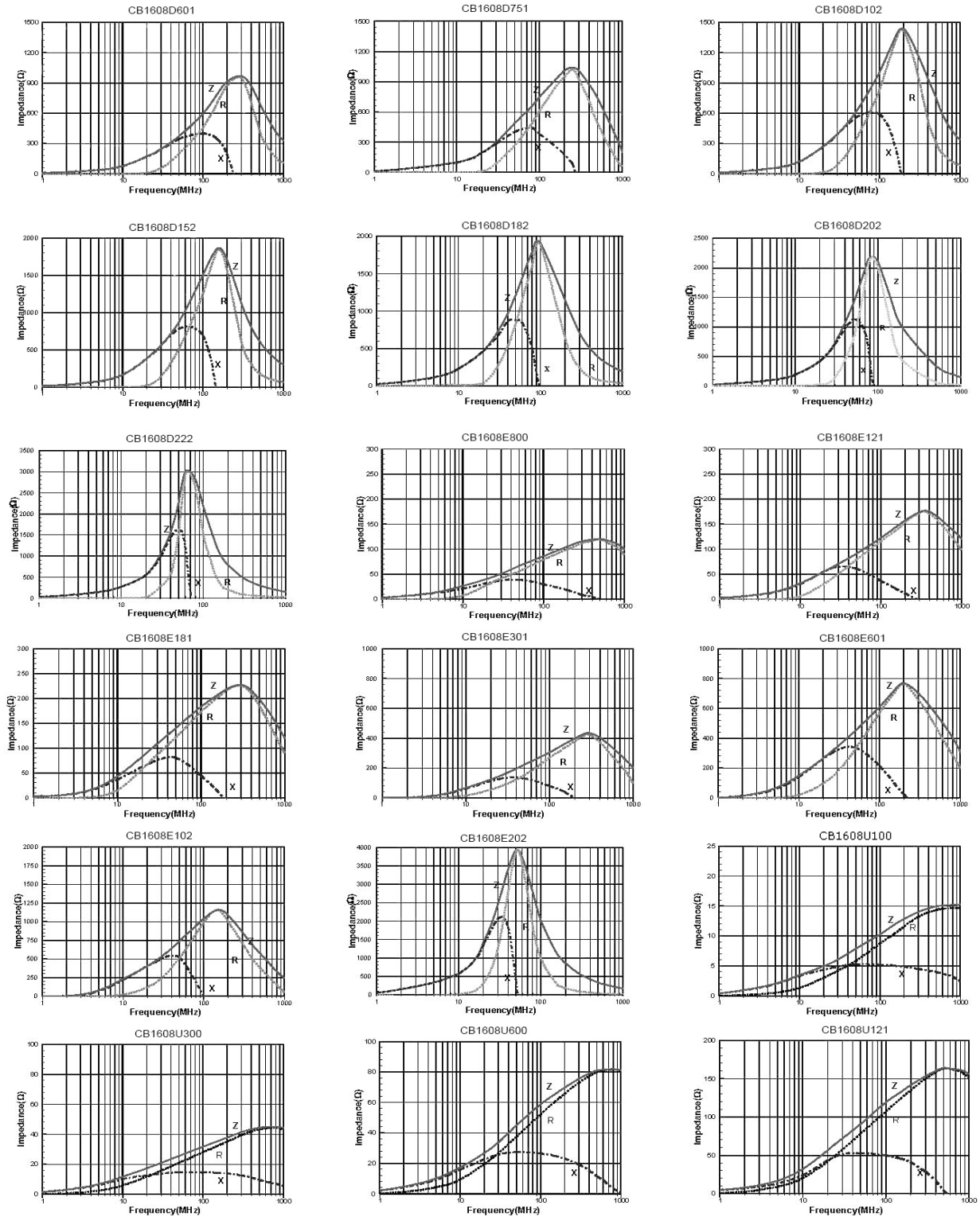
CB1005 TYPE



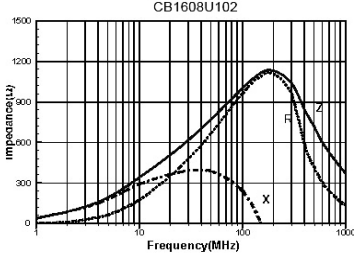
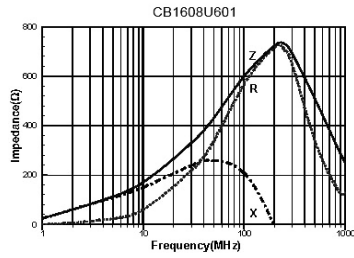
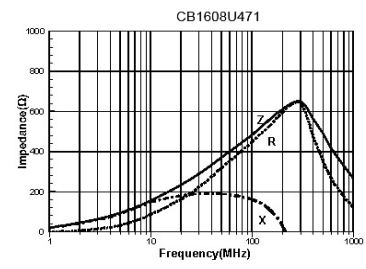
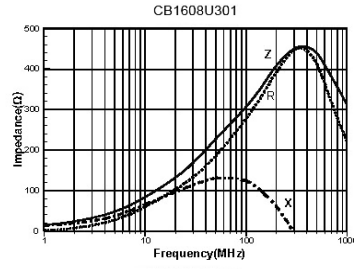
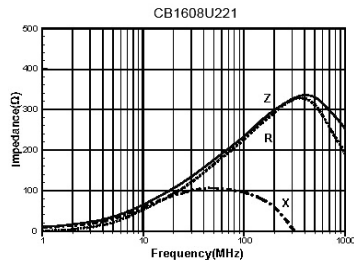
CB1608 TYPE



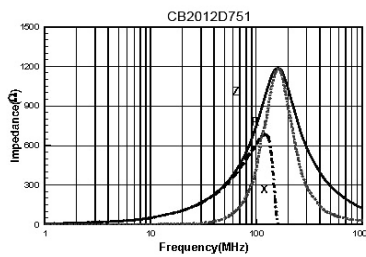
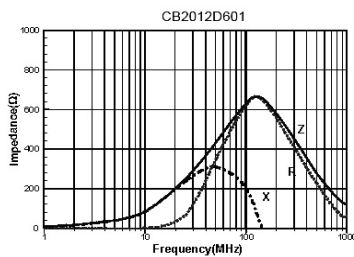
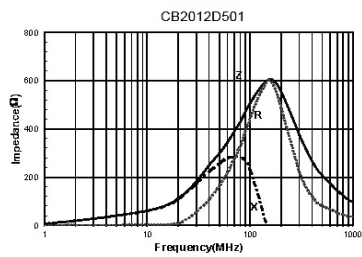
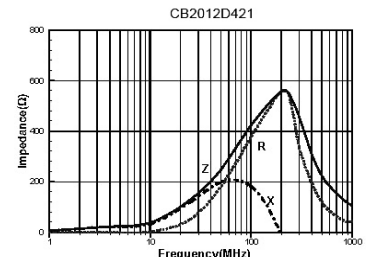
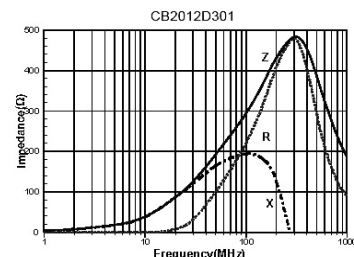
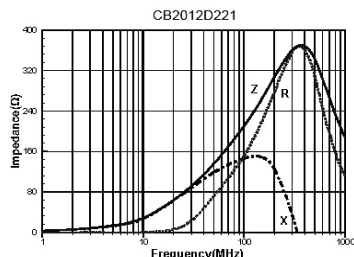
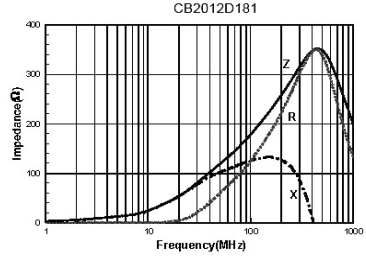
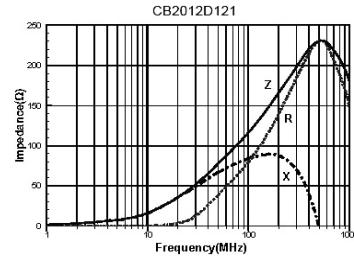
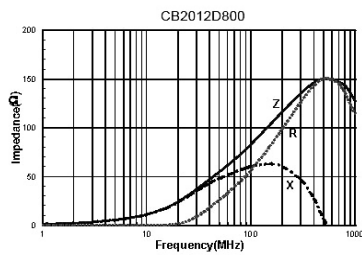
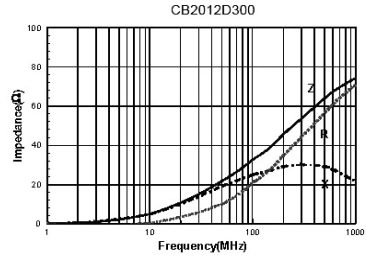
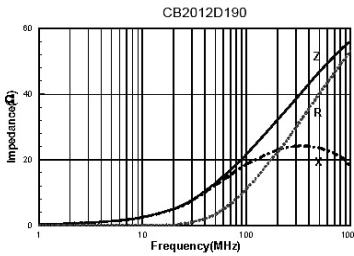
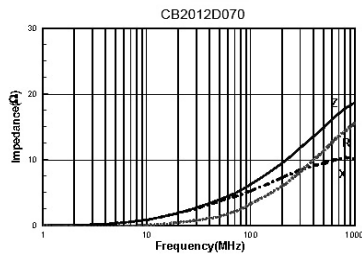
CB 1608TYPE



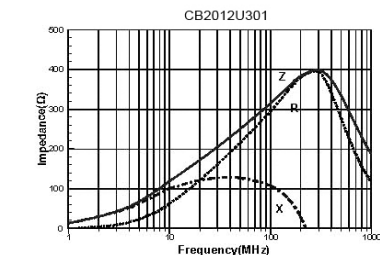
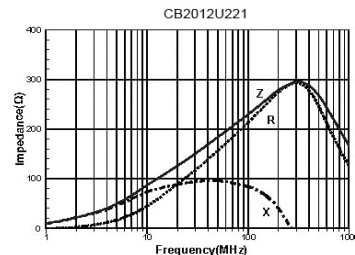
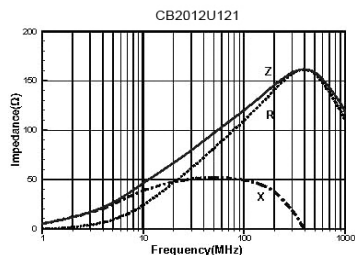
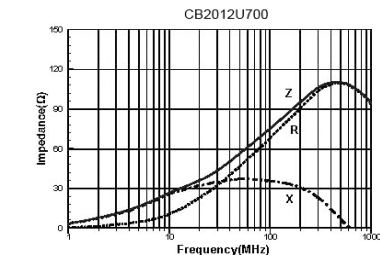
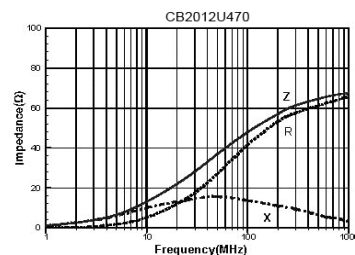
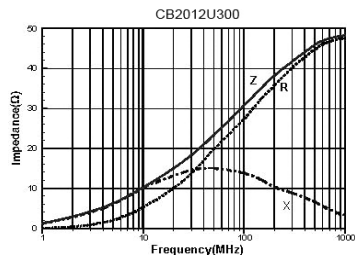
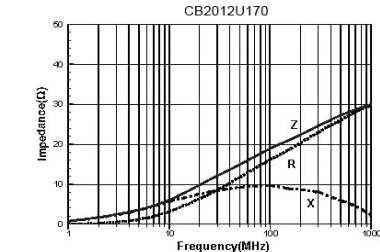
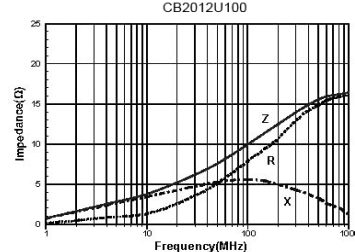
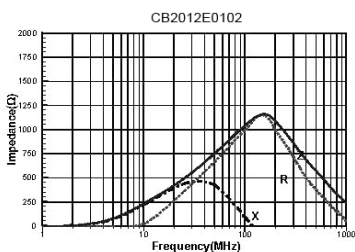
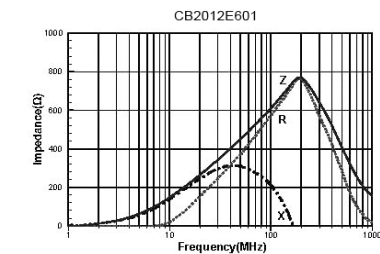
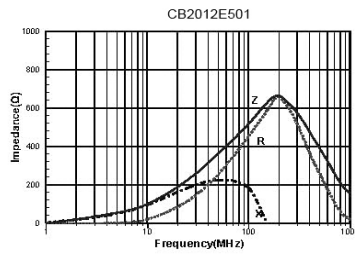
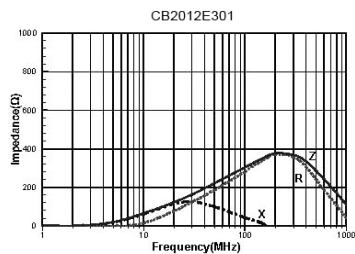
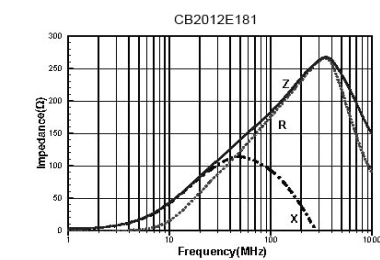
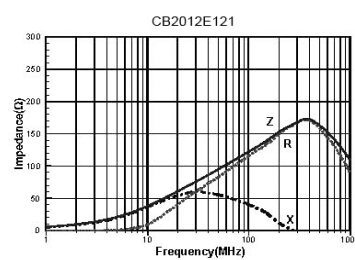
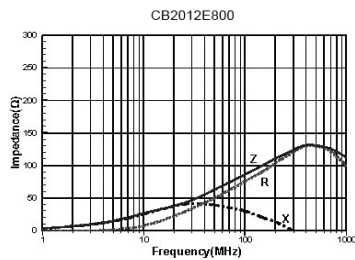
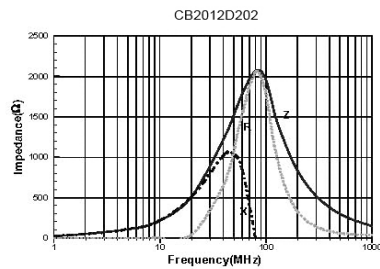
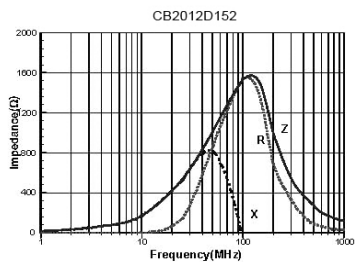
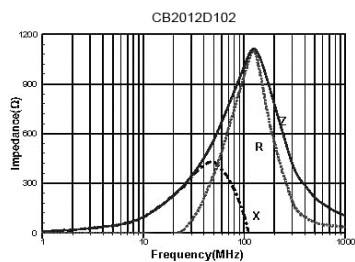
CB1608 TYPE



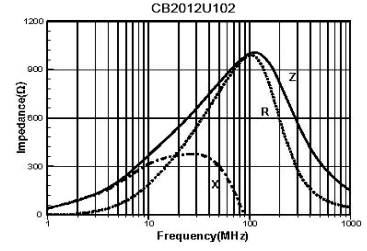
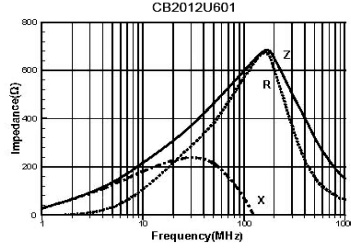
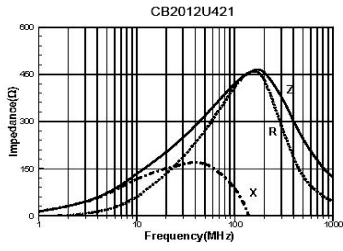
CB2012 TYPE



CB2012 TYPE



CB2012 TYPE



CB3216 TYPE

