

On-Board Type EMI Suppression Filters



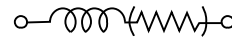
High Current Ferrite Chip Bead HCB Series

HCB Series

Ferrite Chip Bead Offer High Frequency Noise Suppression in High Current DC Power Lines.

鐵氧磁體晶片磁珠提供在大電流電路中高頻雜訊的抑制。

■ Equivalent Circuit Diagram



(Resistance element becomes dominant at high frequency)



■ Features

- 1.Closed magnetic circuit structure allows high density mounting while preventing crosstalk.
- 2.Extremely high reliability due to entirely monolithic construction.
- 3.Low DC resistance structure of electrode to prevent wasteful electric power consumption.
- 4.High Current rating up to 6A.
- 5.The products contain no lead and also support lead-free soldering.

■ Applications

Personal computers,communication equipment,digital telephone,electronic games machines,CRTs,hard disk drives,cellular phones,PDA's,printers High current DC lines and other computer peripheral products.

● 特徵

1. 封閉磁路結構，可高密度安裝並避免干擾。
2. 單石結構，具高度可靠度。
3. 具低直流電阻結構之電極，可避免功率消耗之浪費。
4. 高額定電流達6安培。
5. 產品無鉛適合無鉛銲錫。

● 應用

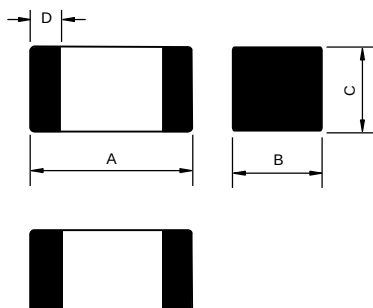
個人電腦、通訊設備、數位電話、電子遊戲機、陰極射線管、硬式磁碟機、行動電話、個人數位助理、列表機、高直流電流線和其他電腦周邊設備。

■ Lead Free Part Numbering

HCB **2012** **K** **F** — **121** **T** **30**
A B C D E F G

A : Series
B : Dimension A x B
C : Material Lead Free
D : Lead Free Code
E : Impedance 121=120Ω
F : Packaging T=Taping and Reel, B=Bulk(Bags)
G : Rated Current 30=3000mA

■ Dimensions



Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
3216	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3
3225	3.2±0.2	2.5±0.2	1.3±0.2	0.5±0.3
4516	4.5±0.2	1.6±0.2	1.6±0.2	0.5±0.3
4532	4.5±0.2	3.2±0.2	1.5±0.2	0.5±0.3
5750	5.7±0.2	5.0±0.3	1.8±0.2	0.5±0.3

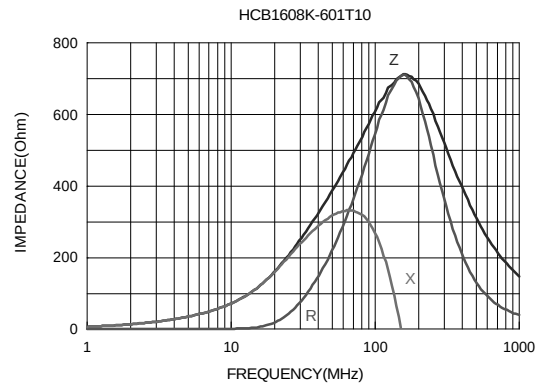
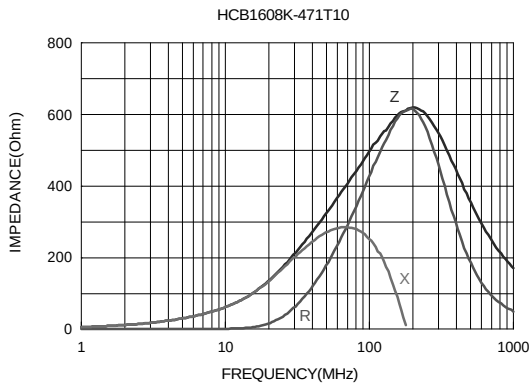
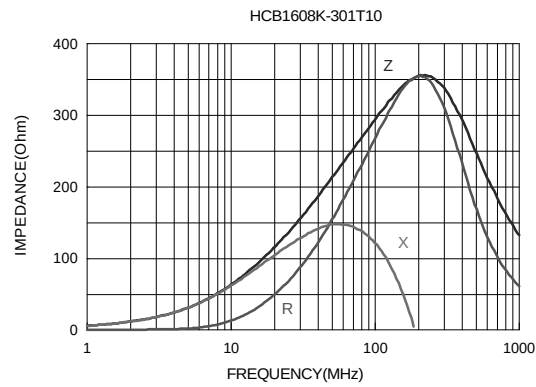
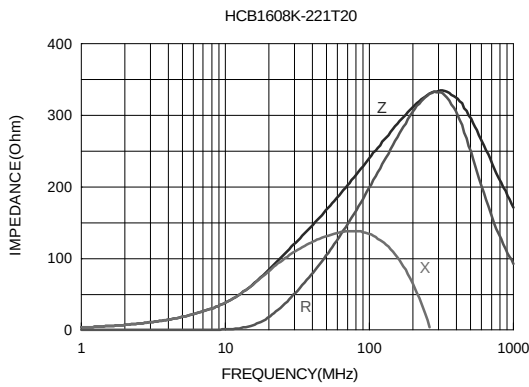
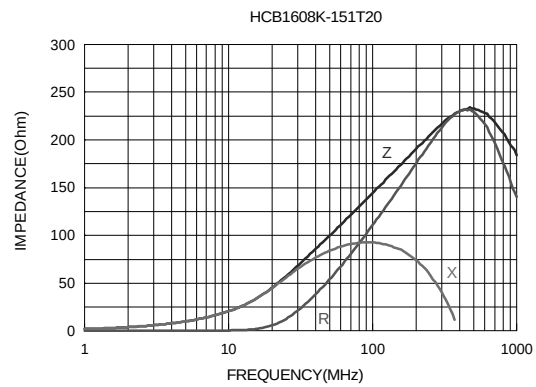
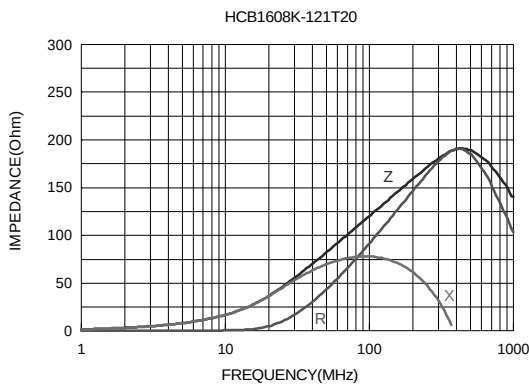
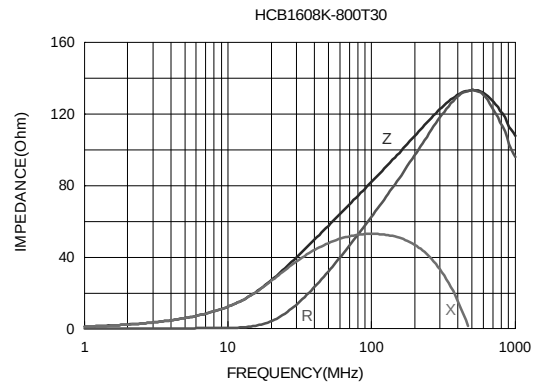
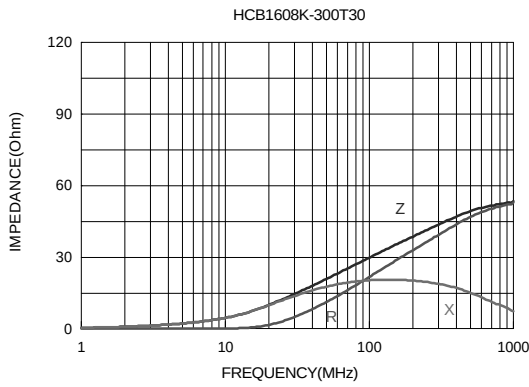
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■ **HCBS Series** for IC's Power Line

Part Number	Impedance (Ohm)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ohm) max.
HCBS1608K-300T30	30±25%	100	3000	0.04
HCBS1608K-800T30	80±25%	100	3000	0.04
HCBS1608K-121T20	120±25%	100	2000	0.10
HCBS1608K-151T20	150±25%	100	2000	0.10
HCBS1608K-221T20	220±25%	100	2000	0.10
HCBS1608K-301T10	300±25%	100	1000	0.20
HCBS1608K-471T10	470±25%	100	1000	0.20
HCBS1608K-601T10	600±25%	100	1000	0.20
HCBS2012K-300T30	30±25%	100	3000	0.04
HCBS2012K-800T30	80±25%	100	3000	0.04
HCBS2012K-121T20	120±25%	100	2000	0.10
HCBS2012K-151T20	150±25%	100	2000	0.10
HCBS2012K-221T20	220±25%	100	2000	0.10
HCBS2012K-301T10	300±25%	100	1000	0.20
HCBS2012K-471T10	470±25%	100	1000	0.20
HCBS2012K-601T10	600±25%	100	1000	0.20

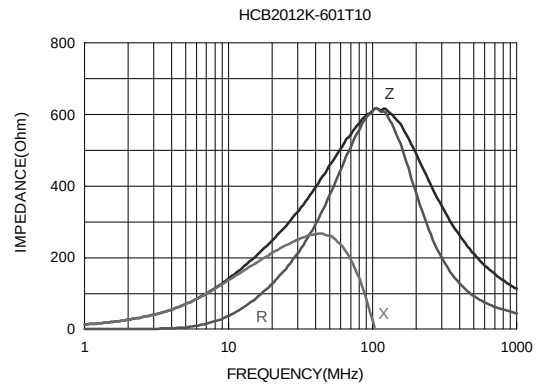
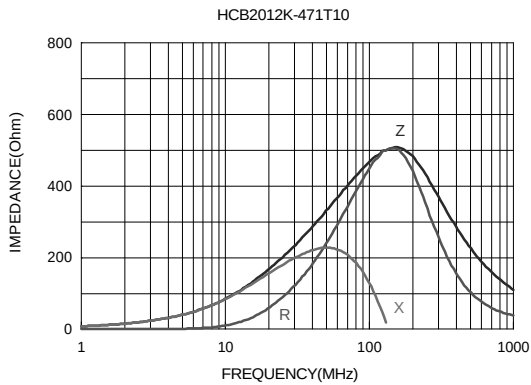
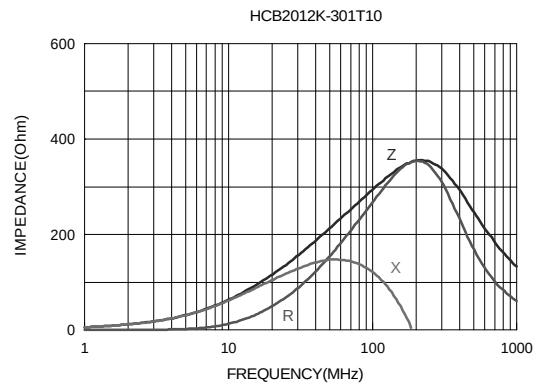
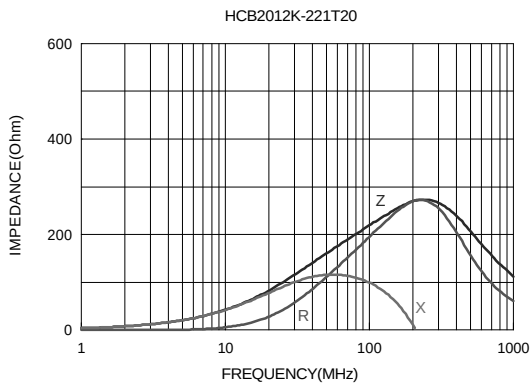
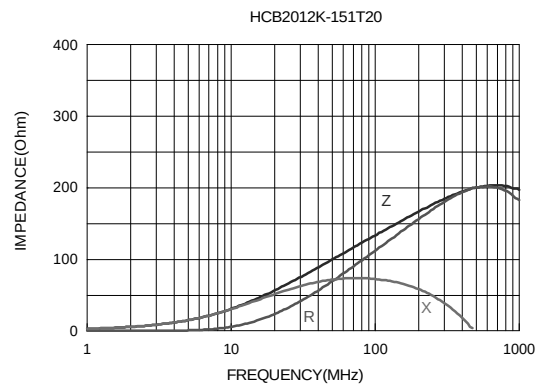
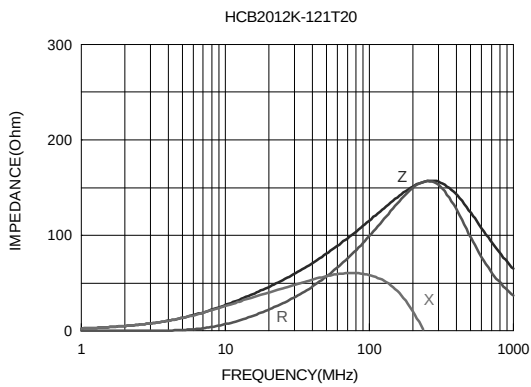
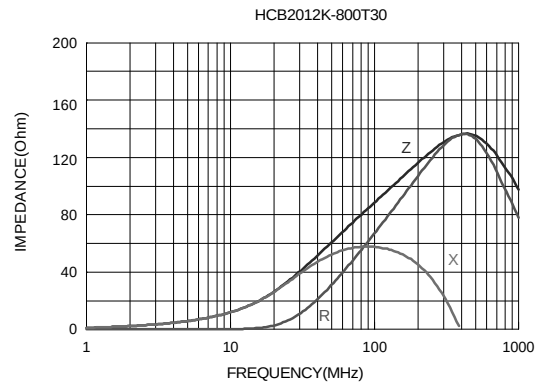
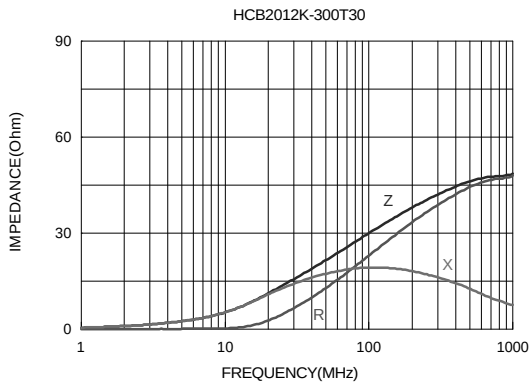
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■ Typical Impedance v.s. Frequency Curve



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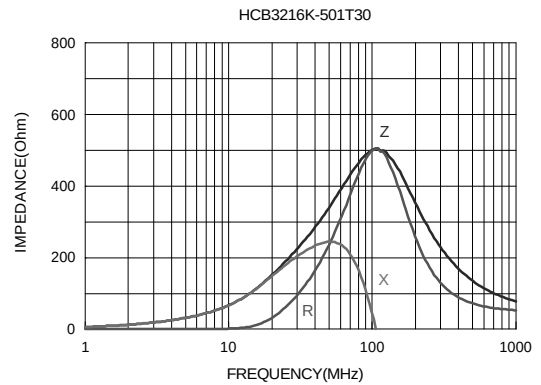
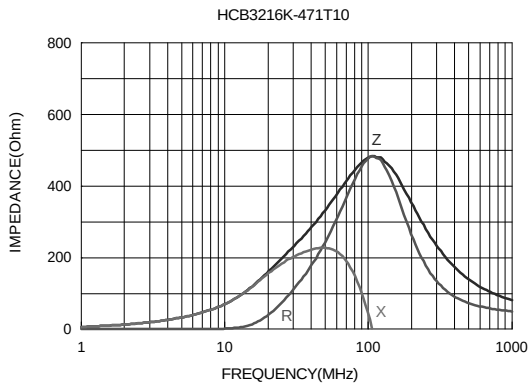
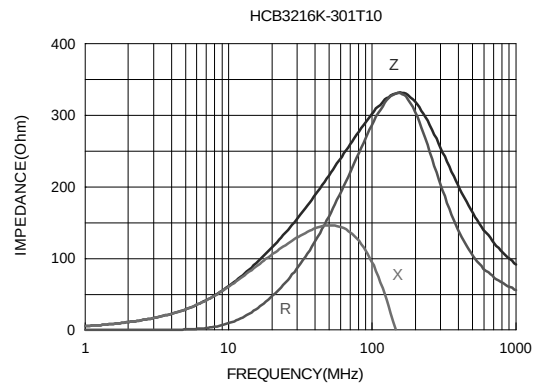
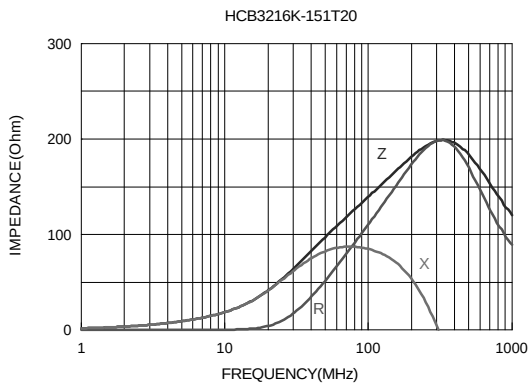
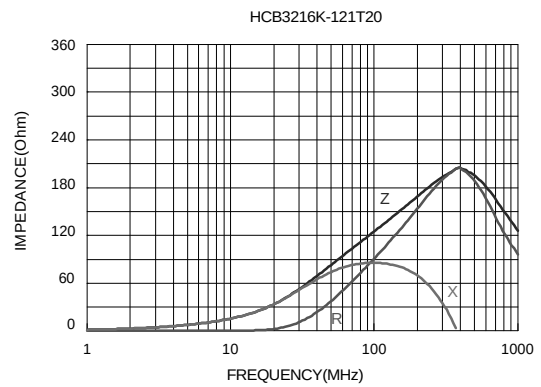
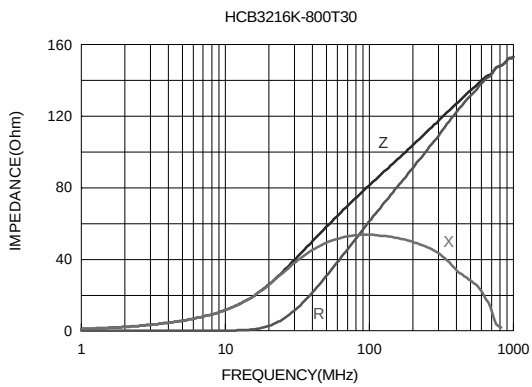
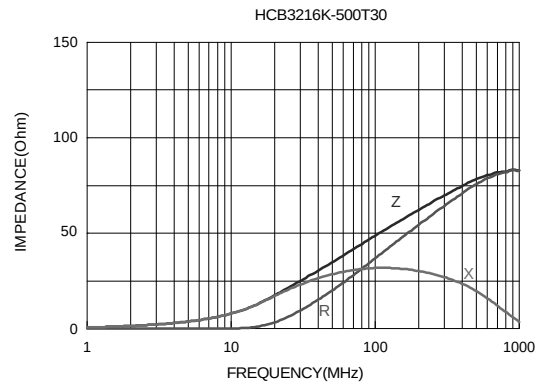
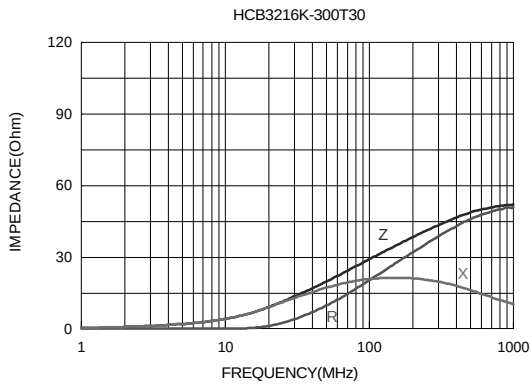
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■ **HC**B Series for High Current DC Power Lines

Part Number	Impedance (Ohm)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ohm) max.
HCB3216K-300T30	30 $\pm$ 25%	100	3000	0.04
HCB3216K-500T30	50 $\pm$ 25%	100	3000	0.04
HCB3216K-800T30	80 $\pm$ 25%	100	3000	0.04
HCB3216K-121T20	120 $\pm$ 25%	100	2000	0.10
HCB3216K-151T20	150 $\pm$ 25%	100	2000	0.10
HCB3216K-301T10	300 $\pm$ 25%	100	1000	0.20
HCB3216K-471T10	470 $\pm$ 25%	100	1000	0.20
HCB3216K-501T30	500 $\pm$ 25%	100	3000	0.04
HCB3216K-601T20	600 $\pm$ 25%	100	2000	0.10
HCB3225K-600T40	60 $\pm$ 25%	100	4000	0.03
HCB3225K-900T20	90 $\pm$ 25%	100	2000	0.10
HCB3225K-151T50	150 $\pm$ 25%	100	5000	0.02
HCB3225K-201T40	200 $\pm$ 25%	100	4000	0.03
HCB4516K-600T60	60 $\pm$ 25%	100	6000	0.01
HCB4516K-800T30	80 $\pm$ 25%	100	3000	0.04
HCB4516C-102T15	1000 $\pm$ 25%	100	1500	0.15
HCB4532K-800T60	80 $\pm$ 25%	100	6000	0.01
HCB4532K-131T30	130 $\pm$ 25%	100	3000	0.04
HCB4532K-151T50	150 $\pm$ 25%	100	5000	0.02
HCB4532H-681T40	680 $\pm$ 25%	100	4000	0.03
HCB4532H-132T30	1300 $\pm$ 25%	60	3000	0.06
HCB4532M-132T30	1300 $\pm$ 25%	100	3000	0.06
HCB5750V-101T60	100 $\pm$ 25%	100	6000	0.01
HCB5750V-151T30	150 $\pm$ 25%	100	3000	0.04
HCB5750V-181T30	180 $\pm$ 25%	100	3000	0.04
HCB5750H-601T30	600 $\pm$ 25%	100	3000	0.04

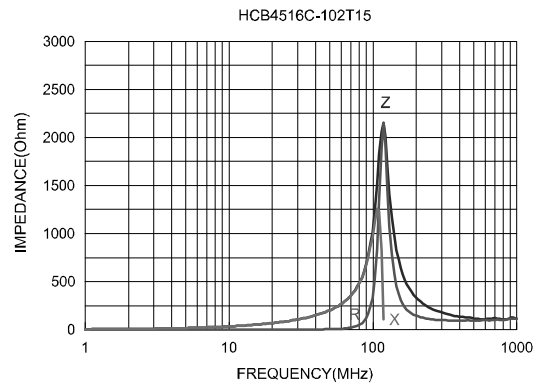
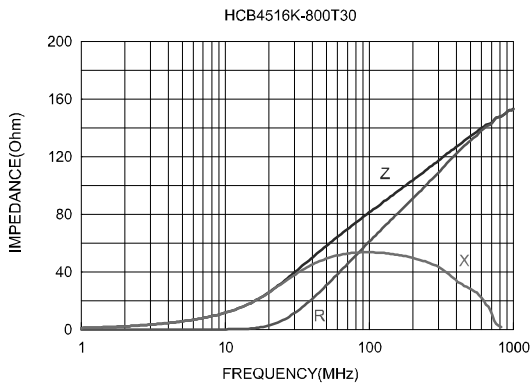
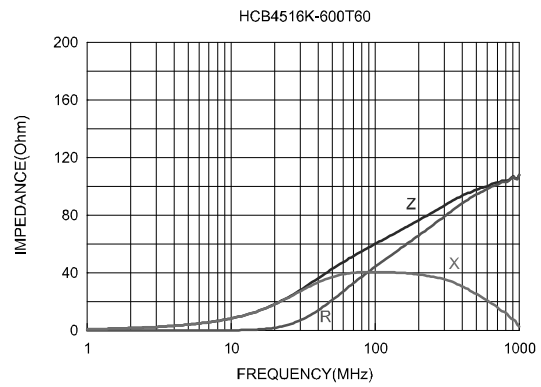
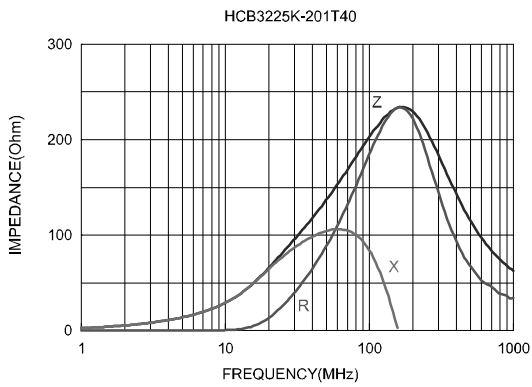
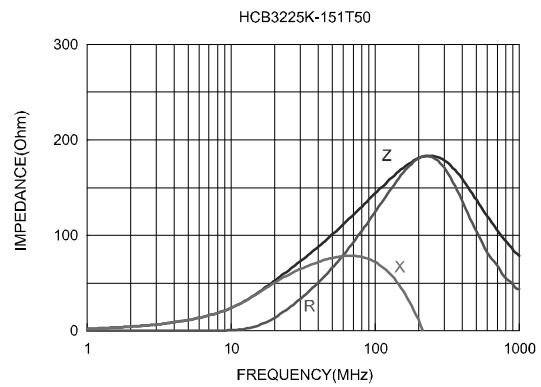
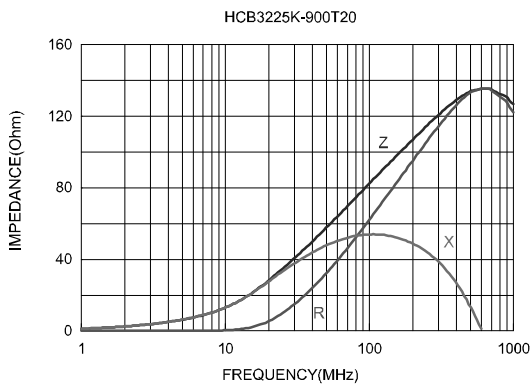
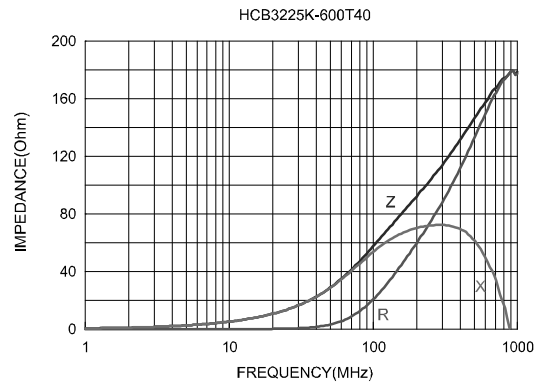
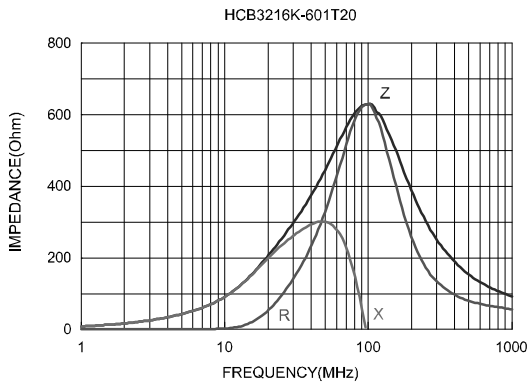
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■ Typical Impedance v.s. Frequency Curve



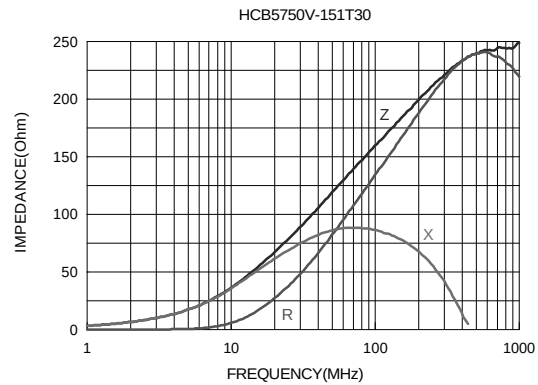
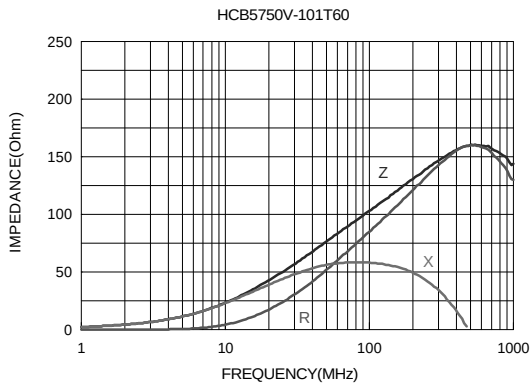
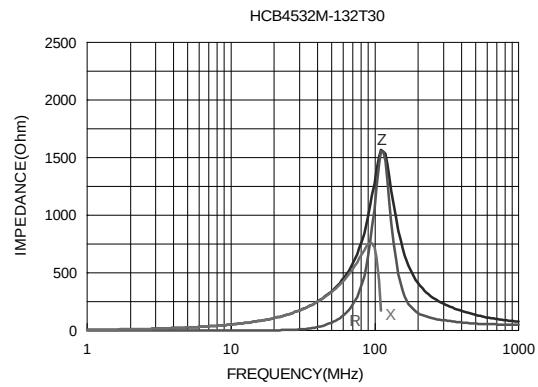
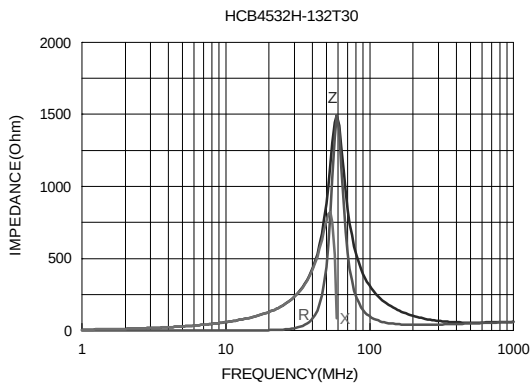
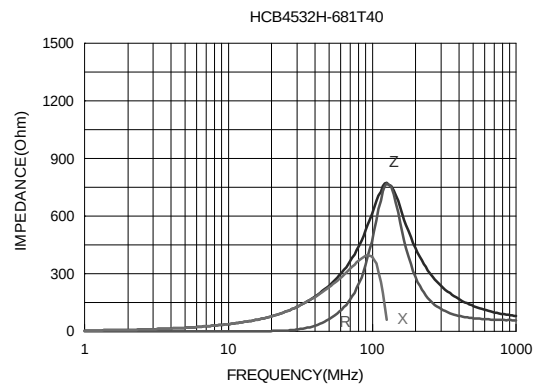
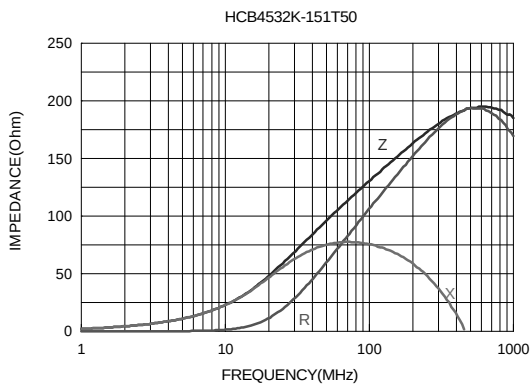
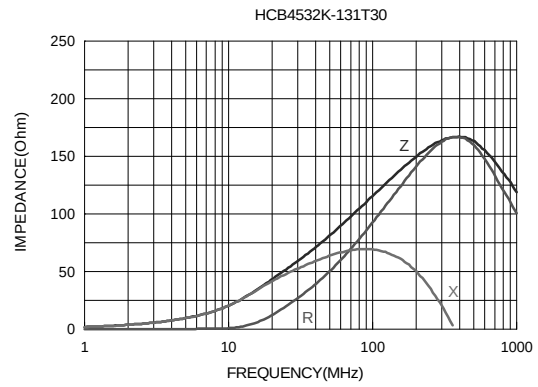
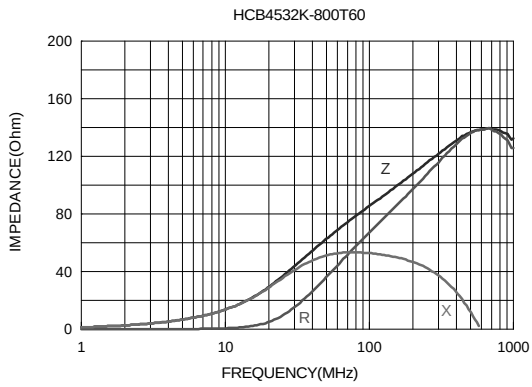
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