

On-Board Type EMI Suppression Filters

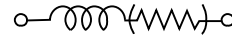
High Current Ferrite Chip Bead HCB Series

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, PDAs, printers High current DC lines and other computer peripheral products.

● 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。

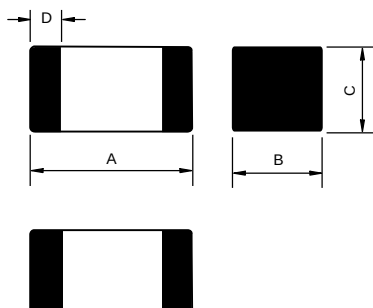
■ Lead Free Part Numbering

HCB
2012
K
F
—
121
T
30

A : Series
 B : Dimension
 C : Material
 D : Lead Free Code
 E : Impedance
 F : Packaging
 G : Rated Current

A x B
 Lead Free
 121=120Ω
 T=Taping and Reel, B=Bulk(Bags)
 30=3000mA

■ Dimensions

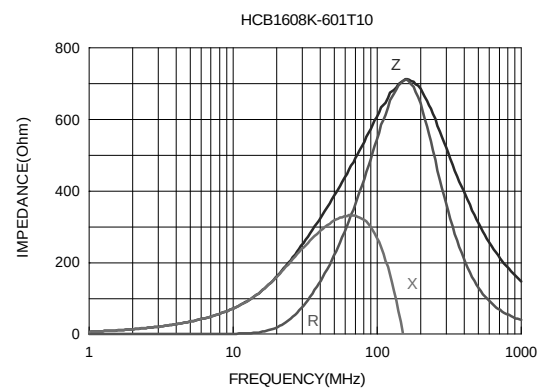
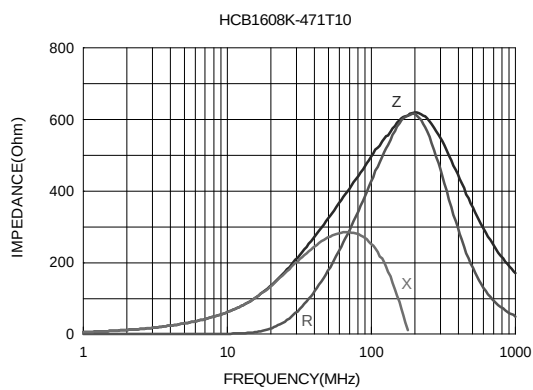
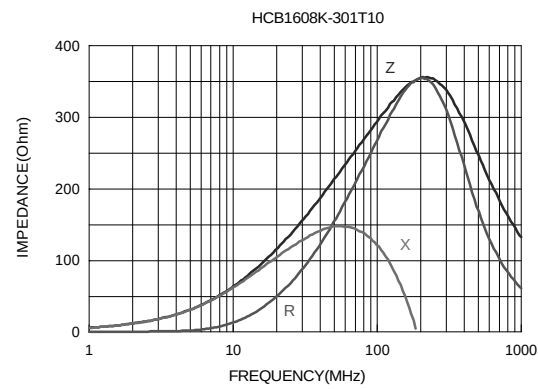
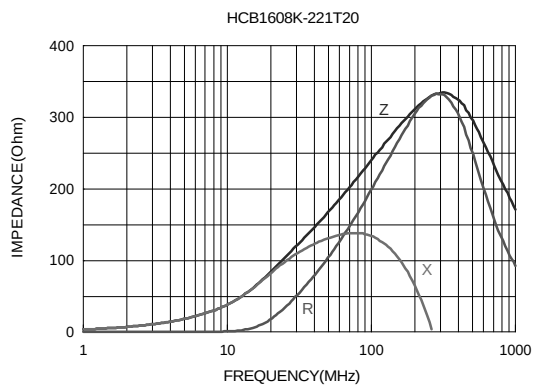
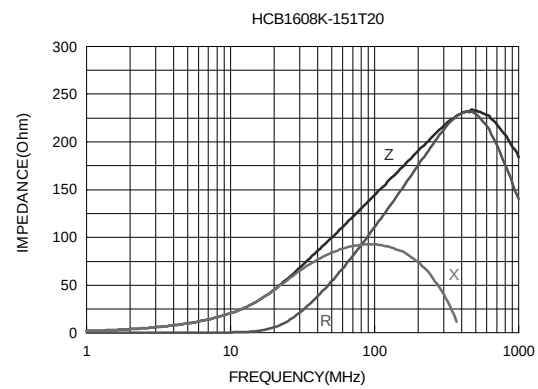
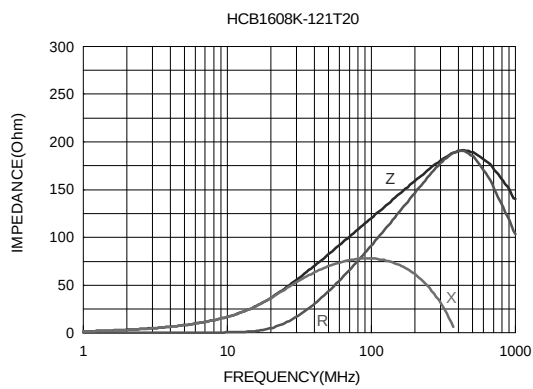
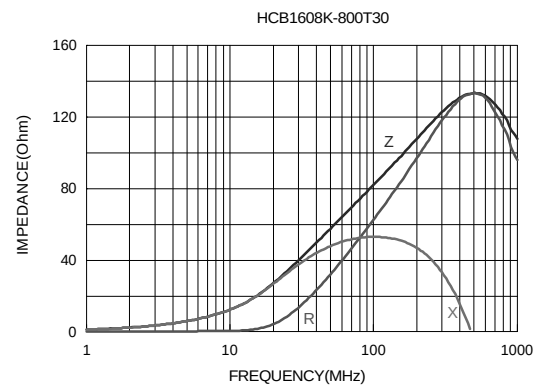
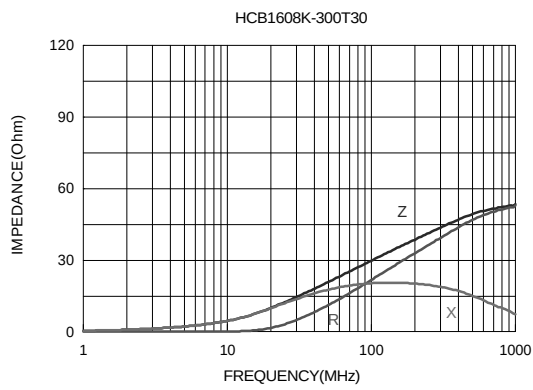


Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
3216	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3
3225	3.2±0.2	2.5±0.2	1.3±0.2	0.5±0.3
4516	4.5±0.2	1.6±0.2	1.6±0.2	0.5±0.3
4532	4.5±0.2	3.2±0.2	1.5±0.2	0.5±0.3
5750	5.7±0.2	5.0±0.3	1.8±0.2	0.5±0.3

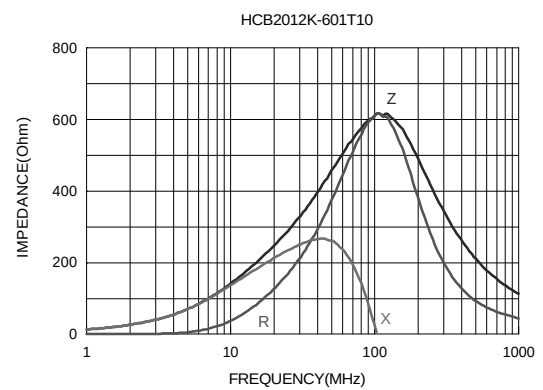
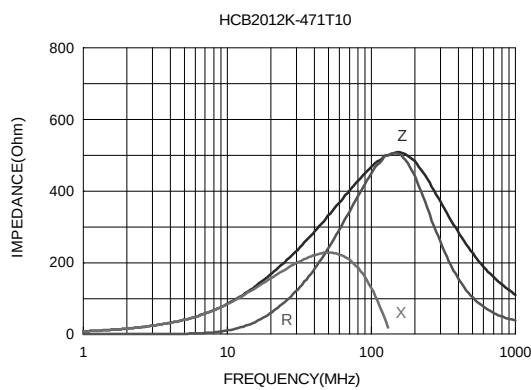
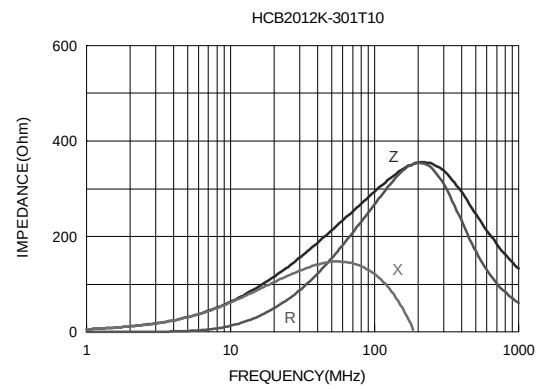
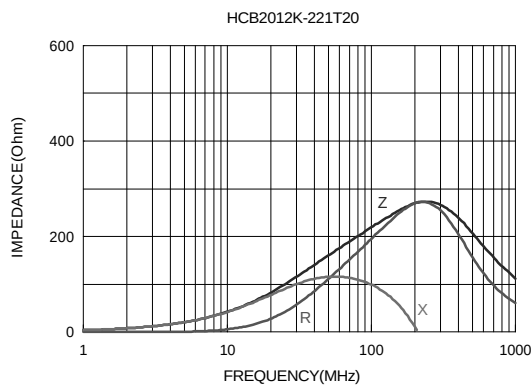
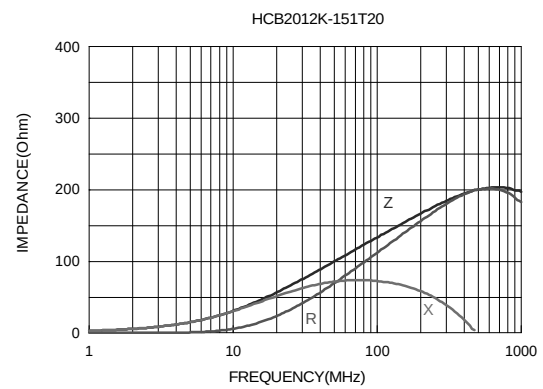
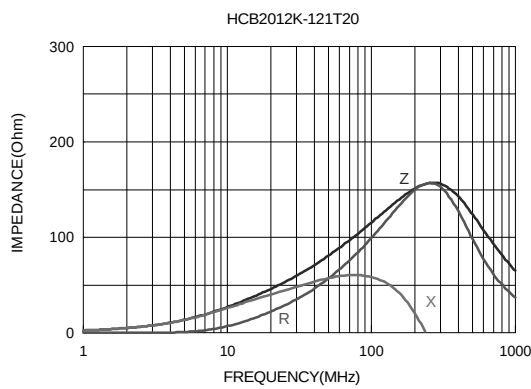
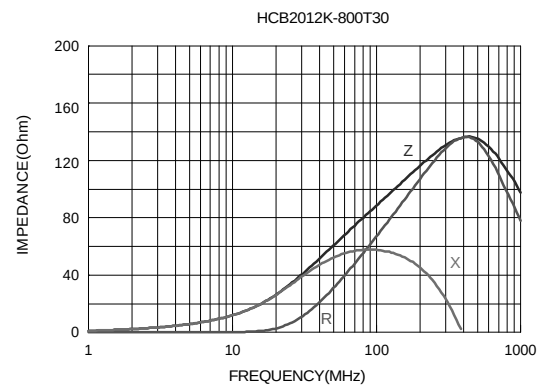
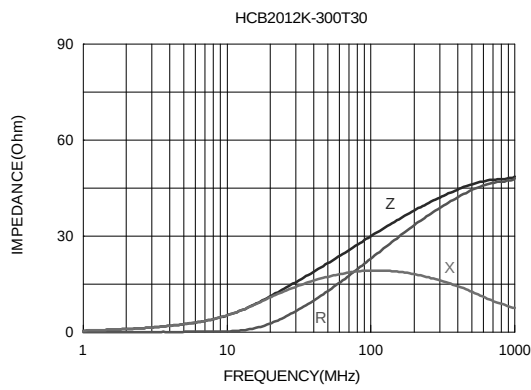
■ **HCBS Series** for IC's Power Line

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

■ Typical Impedance v.s. Frequency Curve



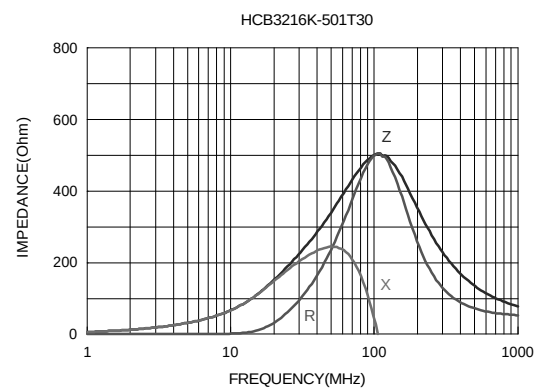
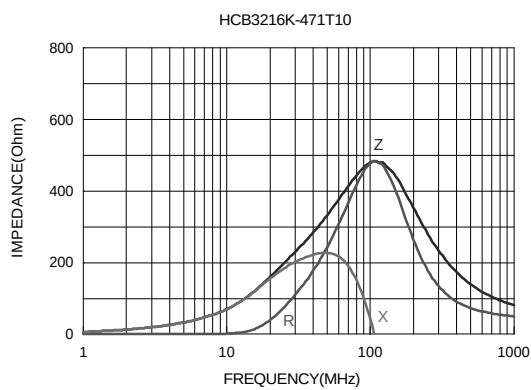
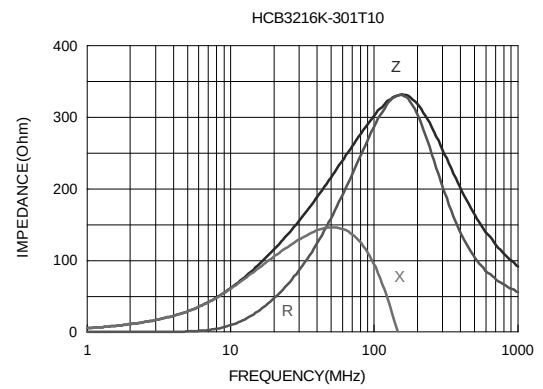
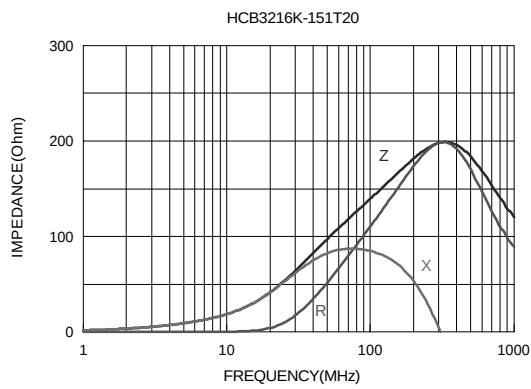
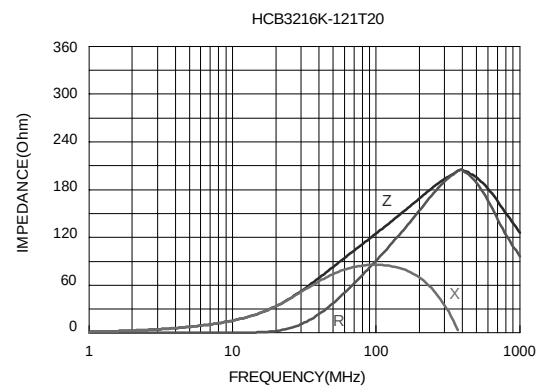
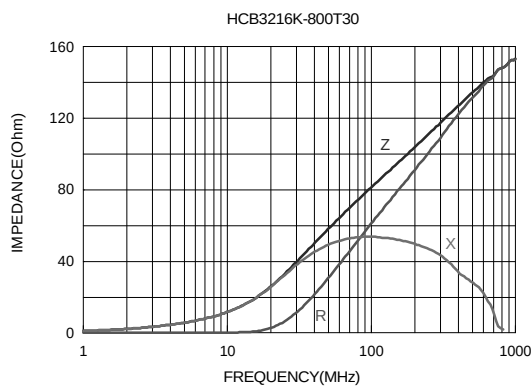
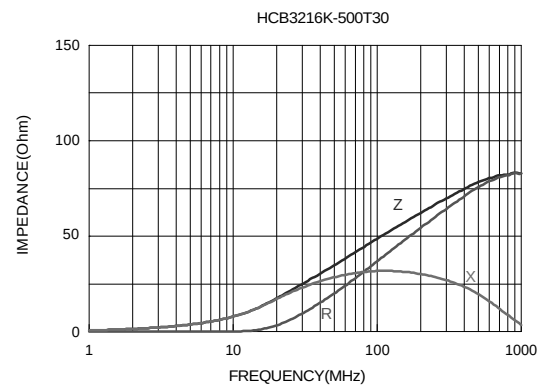
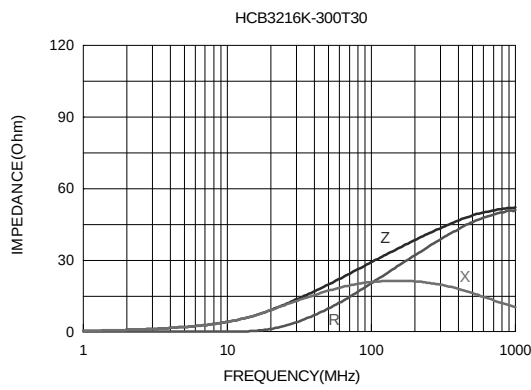
■ Typical Impedance v.s. Frequency Curve



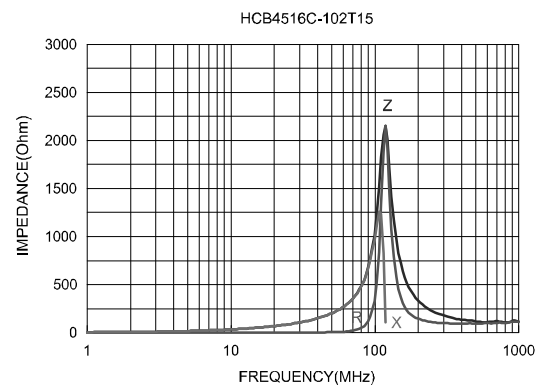
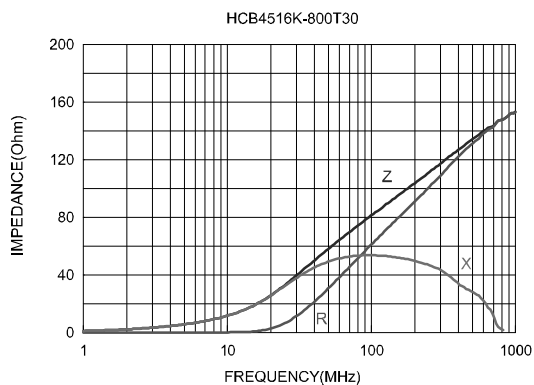
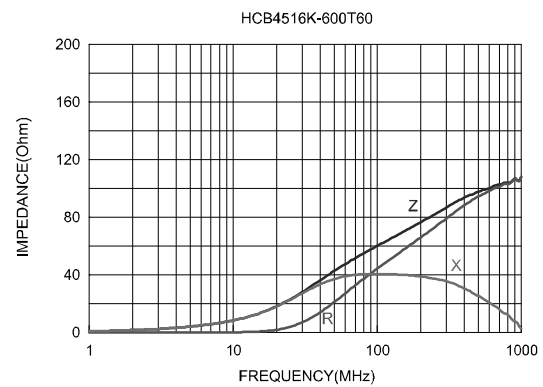
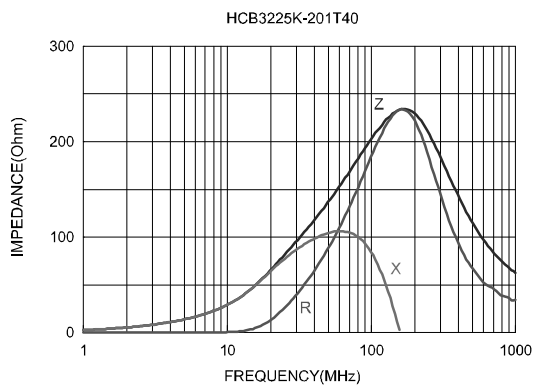
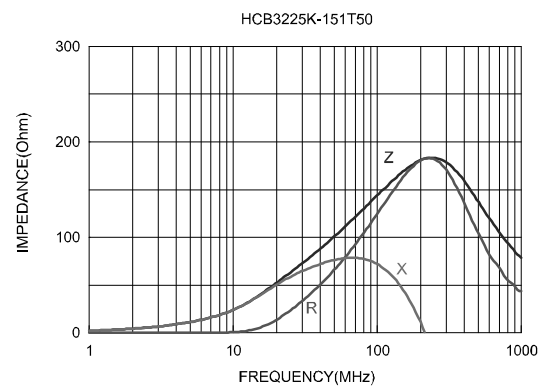
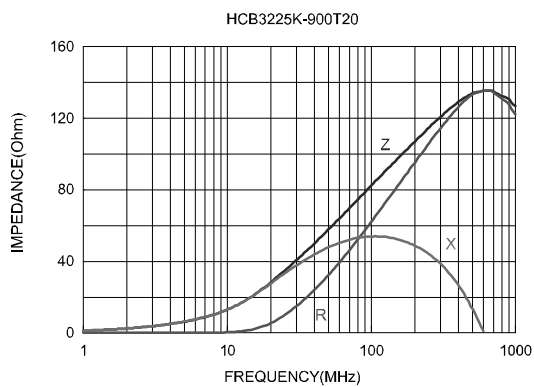
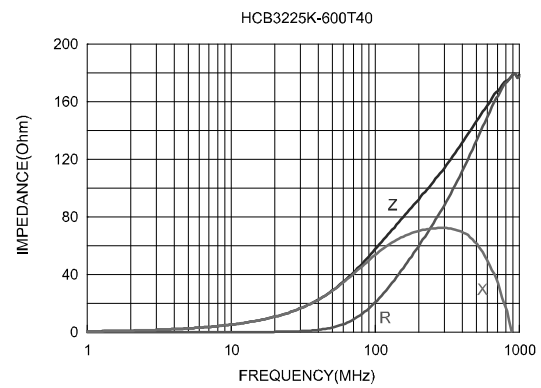
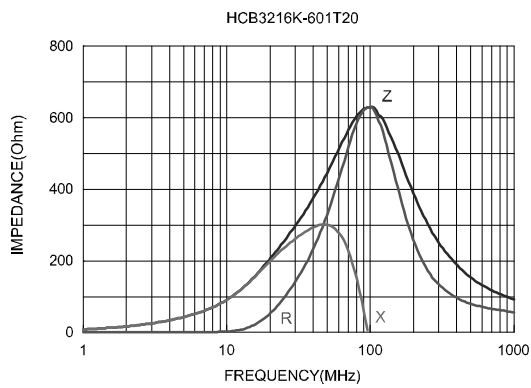
■ **HCBS Series** for High Current DC Power Lines

Part Number	Impedance (Ohm)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ohm) max.
HCBS3216K-300T30	30 $\pm$ 25%	100	3000	0.04
HCBS3216K-500T30	50 $\pm$ 25%	100	3000	0.04
HCBS3216K-800T30	80 $\pm$ 25%	100	3000	0.04
HCBS3216K-121T20	120 $\pm$ 25%	100	2000	0.10
HCBS3216K-151T20	150 $\pm$ 25%	100	2000	0.10
HCBS3216K-301T10	300 $\pm$ 25%	100	1000	0.20
HCBS3216K-471T10	470 $\pm$ 25%	100	1000	0.20
HCBS3216K-501T30	500 $\pm$ 25%	100	3000	0.04
HCBS3216K-601T20	600 $\pm$ 25%	100	2000	0.10
HCBS3225K-600T40	60 $\pm$ 25%	100	4000	0.03
HCBS3225K-900T20	90 $\pm$ 25%	100	2000	0.10
HCBS3225K-151T50	150 $\pm$ 25%	100	5000	0.02
HCBS3225K-201T40	200 $\pm$ 25%	100	4000	0.03
HCBS4516K-600T60	60 $\pm$ 25%	100	6000	0.01
HCBS4516K-800T30	80 $\pm$ 25%	100	3000	0.04
HCBS4516C-102T15	1000 $\pm$ 25%	100	1500	0.15
HCBS4532K-800T60	80 $\pm$ 25%	100	6000	0.01
HCBS4532K-131T30	130 $\pm$ 25%	100	3000	0.04
HCBS4532K-151T50	150 $\pm$ 25%	100	5000	0.02
HCBS4532H-681T40	680 $\pm$ 25%	100	4000	0.03
HCBS4532H-132T30	1300 $\pm$ 25%	60	3000	0.06
HCBS4532M-132T30	1300 $\pm$ 25%	100	3000	0.06
HCBS5750V-101T60	100 $\pm$ 25%	100	6000	0.01
HCBS5750V-151T30	150 $\pm$ 25%	100	3000	0.04
HCBS5750V-181T30	180 $\pm$ 25%	100	3000	0.04
HCBS5750H-601T30	600 $\pm$ 25%	100	3000	0.04

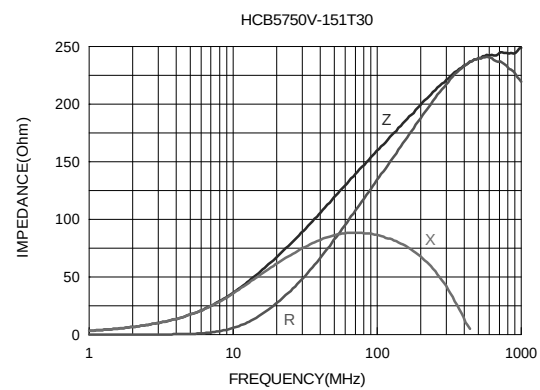
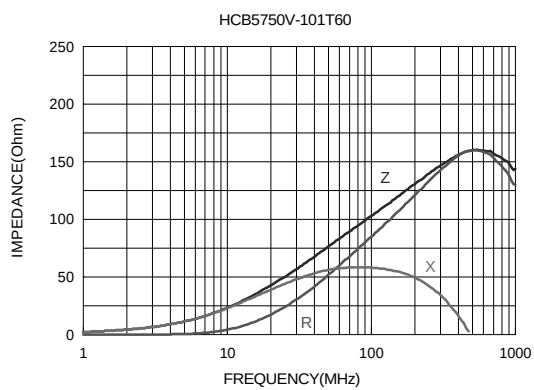
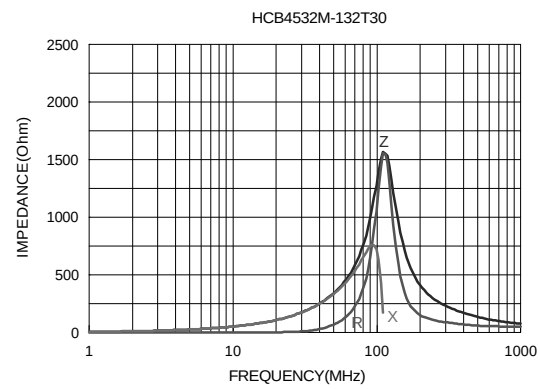
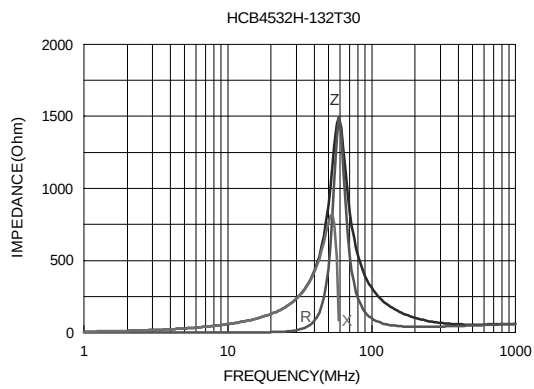
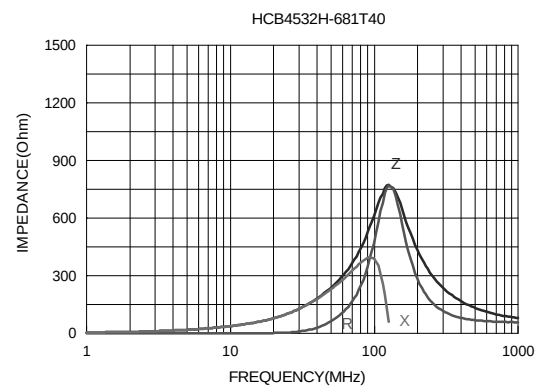
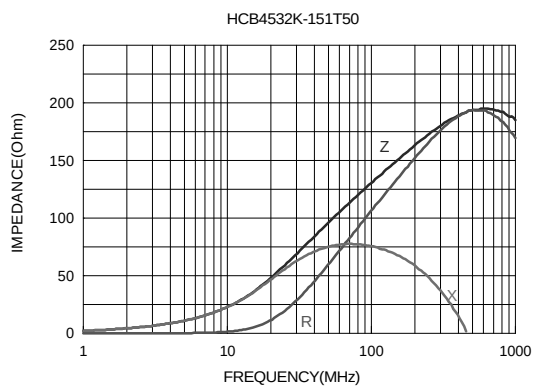
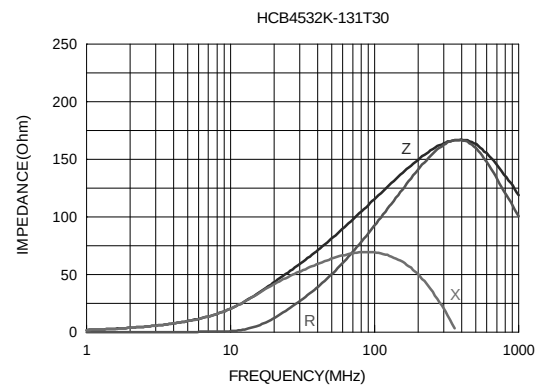
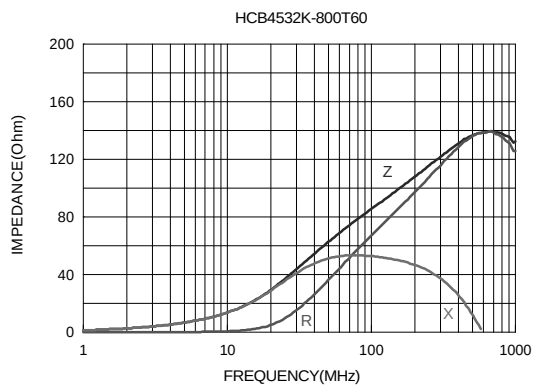
■ Typical Impedance v.s. Frequency Curve



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