

On-Board Type EMI Suppression Filters

High Current Ferrite Chip Bead **HCB** Series

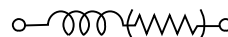
HCB Series

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. 產品無鉛適合無鉛鉛錫。

應用

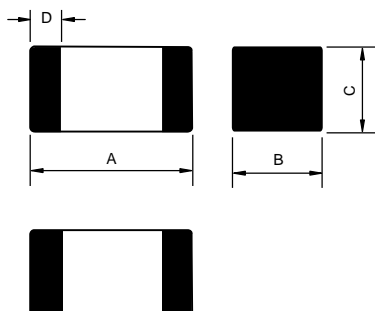
個人電腦、通訊設備、數位電話、電子遊戲機、陰極射線管、硬式磁碟機、行動電話、個人數位助理、列表機、高直流電流線和其他電腦周邊設備。

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=120
F : Packaging T=Taping and Reel, B=Bulk(Bags)
G : Rated Current 30=3000mA

Dimensions

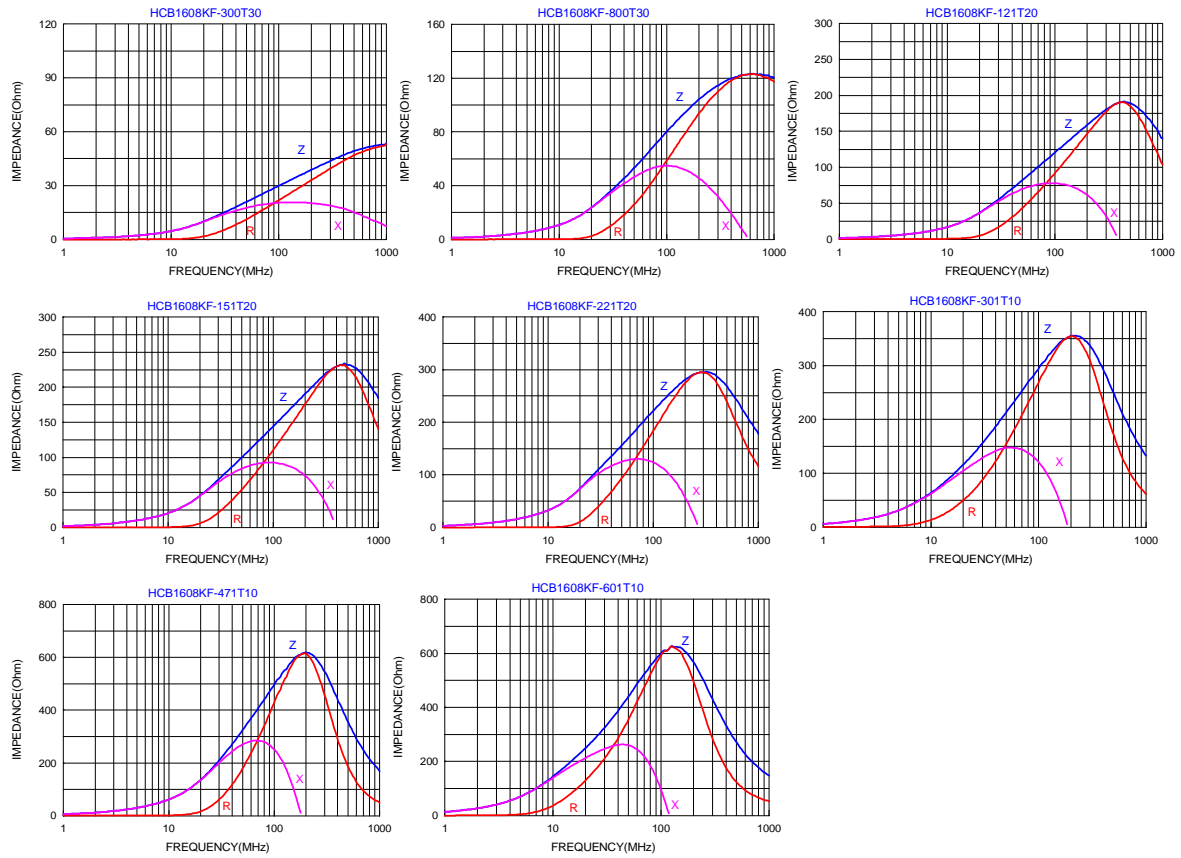


Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1608	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2
2012	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3
3216	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3
	4.5 ± 0.2	2.5 ± 0.2	1.5 ± 0.2	0.5 ± 0.3
	4.5 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.5 ± 0.3
	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3
5	5.7 ± 0.2	5.0 ± 0.3	1.8 ± 0.2	0.5 ± 0.3

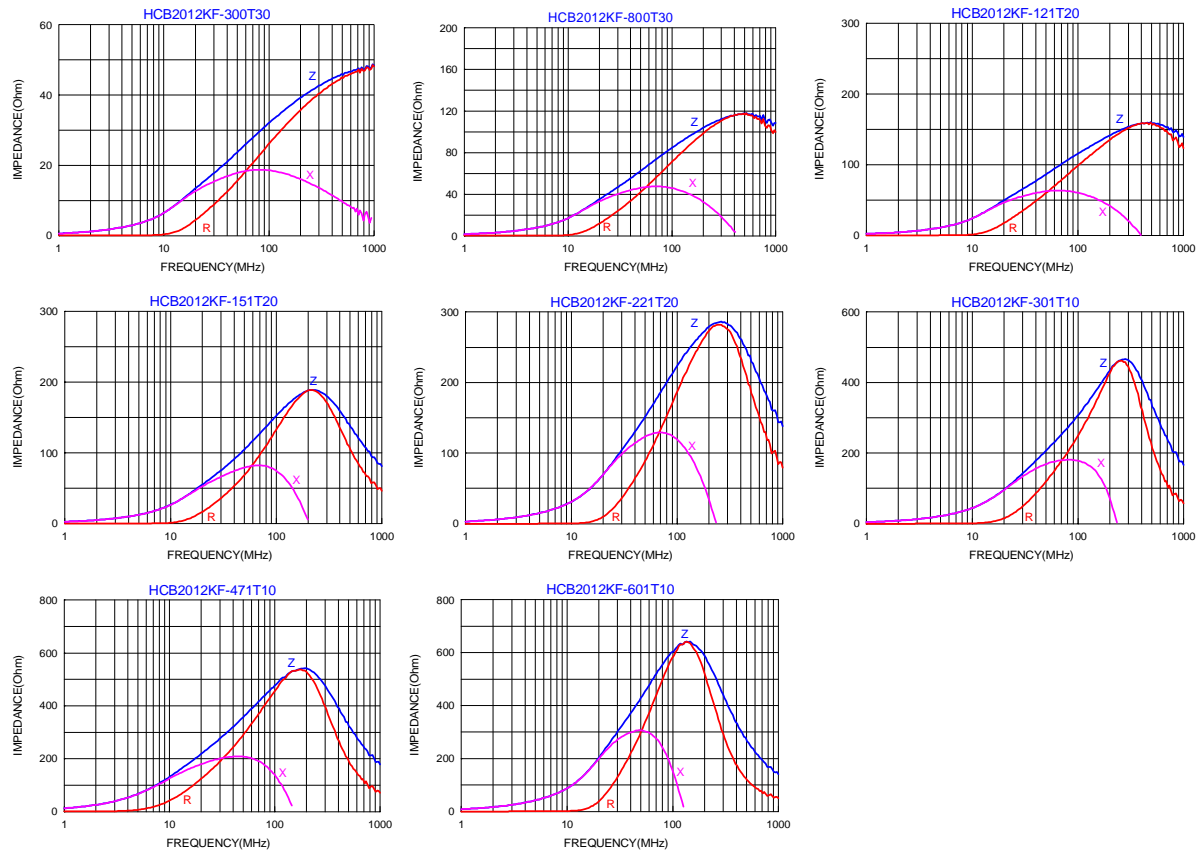
■ Specification

Part Number	Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max	Rated Current (mA)
HCB1608KF-300T30	30 \pm 25%	100	0.04	3000
HCB1608KF-800T30	80 \pm 25%	100	0.04	3000
HCB1608KF-121T20	120 \pm 25%	100	0.10	2000
HCB1608KF-151T20	150 \pm 25%	100	0.10	2000
HCB1608KF-221T20	220 \pm 25%	100	0.10	2000
HCB1608KF-301T10	300 \pm 25%	100	0.20	1000
HCB1608KF-471T10	470 \pm 25%	100	0.20	1000
HCB1608KF-601T10	600 \pm 25%	100	0.20	1000
HCB2012KF-300T30	30 \pm 25%	100	0.04	3000
HCB2012KF-800T30	80 \pm 25%	100	0.04	3000
HCB2012KF-121T20	120 \pm 25%	100	0.10	2000
HCB2012KF-151T20	150 \pm 25%	100	0.10	2000
HCB2012KF-221T20	220 \pm 25%	100	0.10	2000
HCB2012KF-301T10	300 \pm 25%	100	0.20	1000
HCB2012KF-471T10	470 \pm 25%	100	0.20	1000
HCB2012KF-601T10	600 \pm 25%	100	0.20	1000
HCB3216KF-300T30	30 \pm 25%	100	0.04	3000
HCB3216KF-500T30	50 \pm 25%	100	0.04	3000
HCB3216KF-800T30	80 \pm 25%	100	0.04	3000
HCB3216KF-121T20	120 \pm 25%	100	0.1	2000
HCB3216KF-151T20	150 \pm 25%	100	0.1	2000
HCB3216KF-301T10	300 \pm 25%	100	0.2	1000
HCB3216KF-471T10	470 \pm 25%	100	0.2	1000
HCB3216KF-501T30	500 \pm 25%	100	0.04	3000
HCB3216KF-601T20	600 \pm 25%	100	0.1	2000

Typical Impedance v.s. Frequency Curve



Typical Impedance v.s. Frequency Curve



Typical Impedance v.s. Frequency Curve

