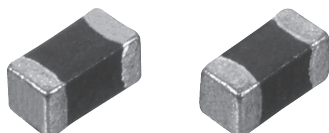




SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series



Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- SMD Type & suitable for reflow and wave soldering

Application

- Personal computers, communicator equipment, digital telephone, electronic games machines, CRTs, hard disk drivers, cellular phones, PDAs, Printers and other computer peripheral products.
- Suitable for I/O ports, DC power lines and signal lines, and general circuits with unstable ground.

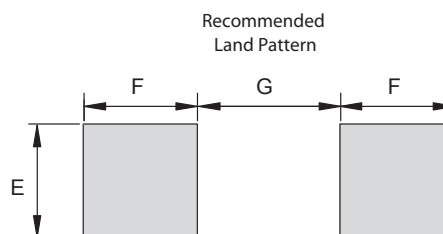
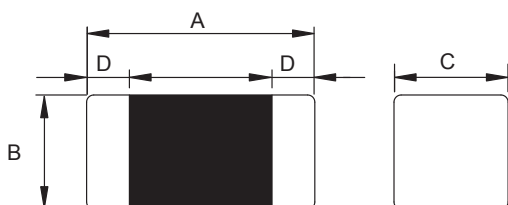
Part Numbering

GCB 1005 K - 300 T 03 - □ A

1 2 3 4 5 6 7 8

- 1 Product Group
GCB for General Application
HCB for High Speed Application
LCB for Power Supply Line Application
- 2 Dimension Code
- 3 Type Code
- 4 Impedance Code (Ex: 900→90Ω, 121→120Ω)
- 5 Packaging Code (T=Taping and Reel)
- 6 Rated Current (Ex: 03=300mA)
- 7 Control Code
- 8 Automobile Code

Shapes and Dimension



Unit: mm

Type	A	B	C		D	E	F	G
0603	0.60±0.03	0.30±0.03	0.30±0.03		0.15±0.05	0.40	0.35	0.30
1005	1.00±0.10	0.50±0.10	0.50±0.10		0.25±0.10	0.55	0.55	0.40
1608	1.60±0.15	0.80±0.15	0.80±0.15		0.30±0.20	0.80	1.00	0.60
2012	2.00±0.20	1.25±0.20	0.85±0.20	1.25±0.20	0.50±0.30	1.00	1.00	1.00
3216	3.20±0.20	1.60±0.20	1.10±0.20		0.50±0.30	1.40	1.10	2.20

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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series

General Technical Data

Operating Temperature Range	-40°C~+85°C
Storage Temperature	40°C Max. , 70%RHMax.

Electrical Characteristics

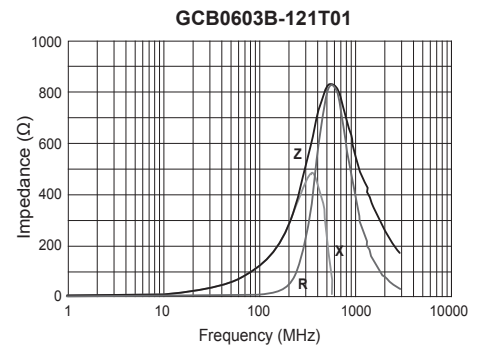
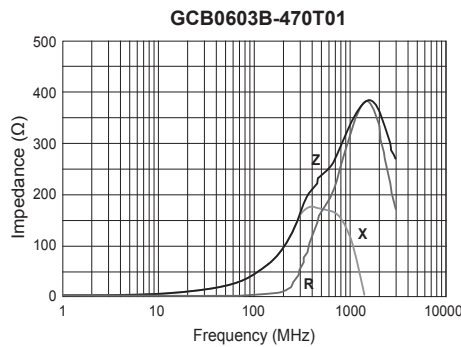
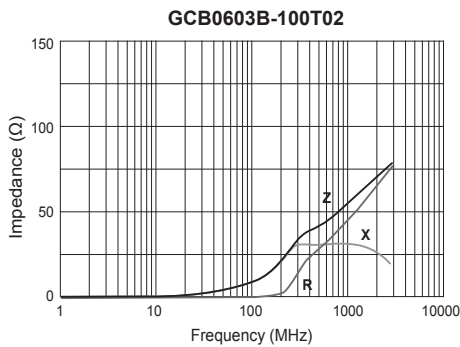
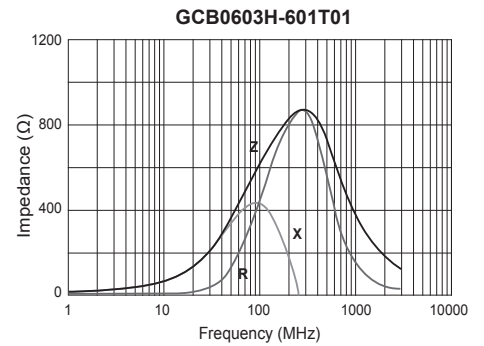
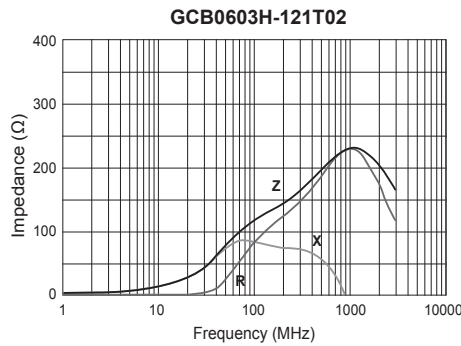
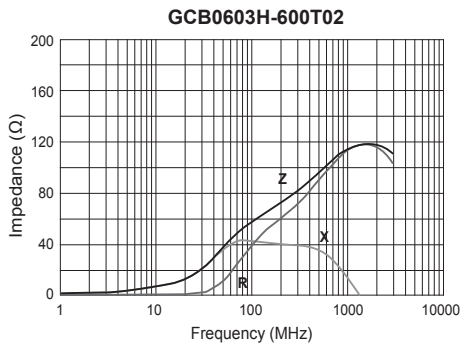
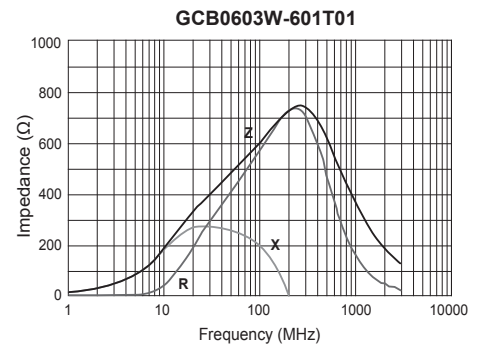
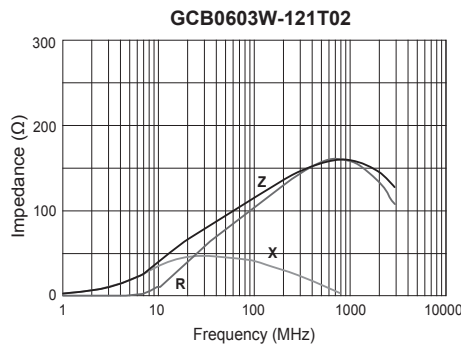
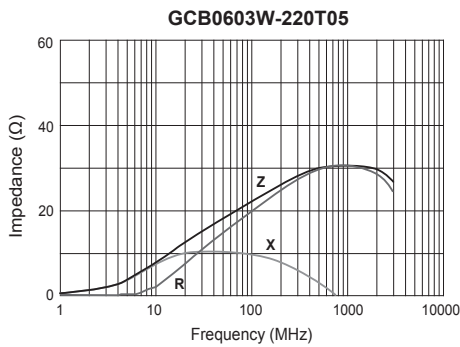
Part Number	Impedance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
GCB0603 Series				
GCB0603W-220T05-□	22Ω±25%	100 MHz	0.065Ω	500mA
GCB0603W-330T05-□	33Ω±25%	100 MHz	0.070Ω	500mA
GCB0603W-800T02-□	80Ω±25%	100 MHz	0.400Ω	200mA
GCB0603W-121T02-□	120Ω±25%	100 MHz	0.450Ω	200mA
GCB0603W-241T02-□	240Ω±25%	100 MHz	0.650Ω	200mA
GCB0603W-601T01-□	600Ω±25%	100 MHz	1.200Ω	150mA
GCB0603H-600T02-□	60Ω±25%	100 MHz	0.250Ω	200mA
GCB0603H-121T02-□	120Ω±25%	100 MHz	0.400Ω	200mA
GCB0603H-241T02-□	240Ω±25%	100 MHz	0.800Ω	200mA
GCB0603H-471T01-□	470Ω±25%	100 MHz	1.050Ω	100mA
GCB0603H-601T01-□	600Ω±25%	100 MHz	1.200Ω	100mA
GCB0603B-100T02-□	10Ω±25%	100 MHz	0.250Ω	200mA
GCB0603B-220T02-□	22Ω±25%	100 MHz	0.450Ω	200mA
GCB0603B-330T01-□	33Ω±25%	100 MHz	0.550Ω	150mA
GCB0603B-470T01-□	47Ω±25%	100 MHz	0.700Ω	150mA
GCB0603B-560T01-□	56Ω±25%	100 MHz	1.000Ω	100mA
GCB0603B-800T01-□	80Ω±25%	100 MHz	1.300Ω	100mA
GCB0603B-121T01-□	120Ω±25%	100 MHz	1.500Ω	100mA
GCB0603K-102T02-□	1000Ω±25%	100 MHz	1.150Ω	220mA

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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series



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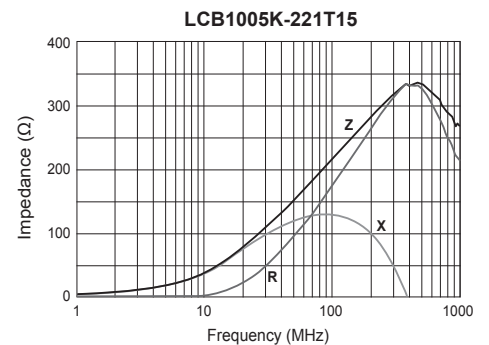
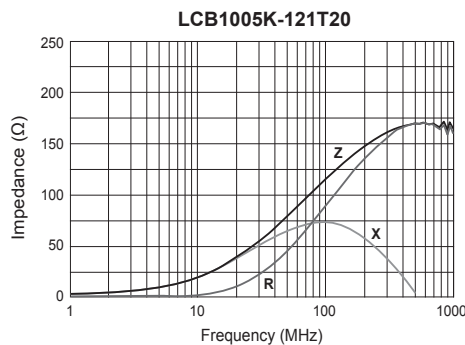
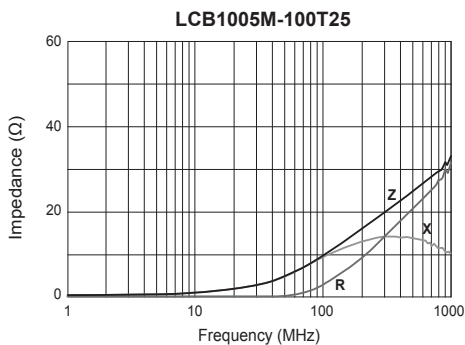
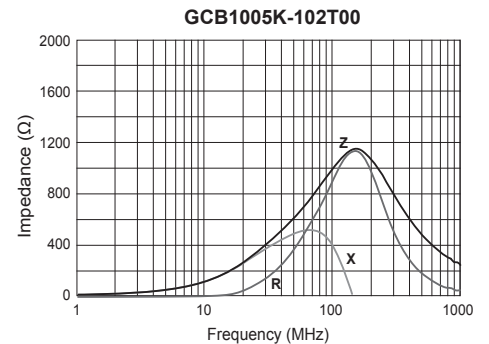
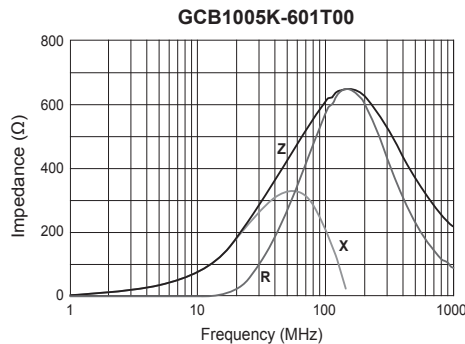
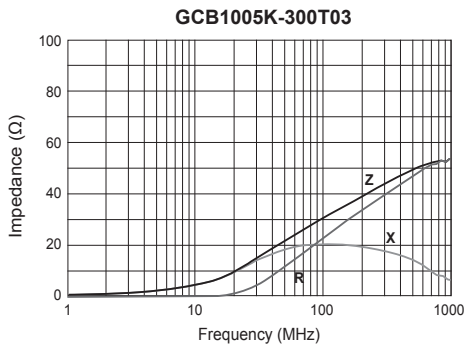
SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series

Electrical Characteristics

AEC
Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
GCB1005 Series				
GCB1005K-300T03-□A	30Ω±25%	100 MHz	0.20Ω	300mA
GCB1005K-600T03-□A	60Ω±25%	100 MHz	0.25Ω	300mA
GCB1005K-121T01-□A	120Ω±25%	100 MHz	0.30Ω	100mA
GCB1005K-151T01-□A	150Ω±25%	100 MHz	0.30Ω	100mA
GCB1005K-221T01-□A	220Ω±25%	100 MHz	0.40Ω	100mA
GCB1005K-301T01-□A	300Ω±25%	100 MHz	0.50Ω	100mA
GCB1005K-471T01-□A	470Ω±25%	100 MHz	0.65Ω	100mA
GCB1005K-601T00-□A	600Ω±25%	100 MHz	0.80Ω	80mA
GCB1005K-102T00-□A	1000Ω±25%	100 MHz	1.20Ω	50mA
LCB1005 Series				
LCB1005M-100T25-□A	10Ω±25%	100 MHz	0.05Ω	2500mA
LCB1005K-121T20-□A	120Ω±25%	100 MHz	0.10Ω	2000mA
LCB1005K-221T15-□A	220Ω±25%	100 MHz	0.15Ω	1500mA



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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series

Electrical Characteristics

AEC
Q200

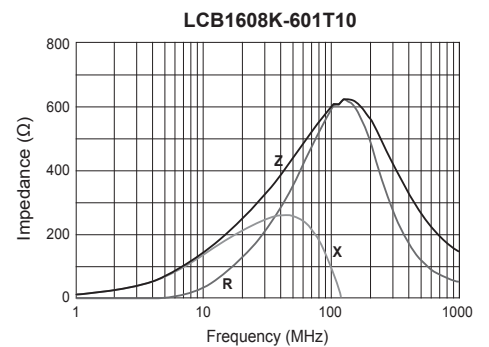
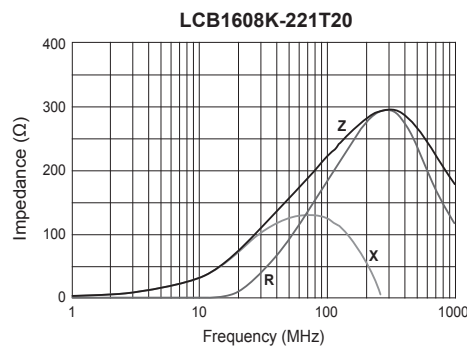
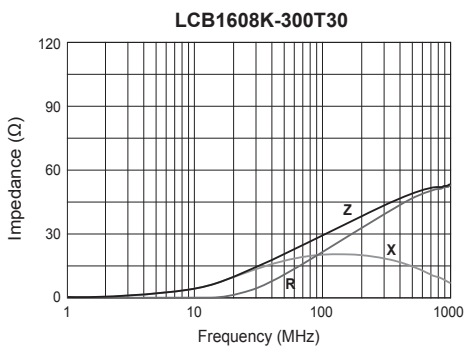
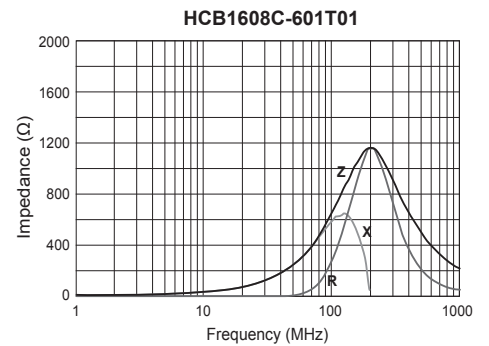
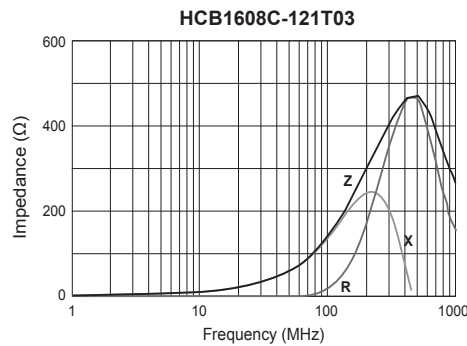
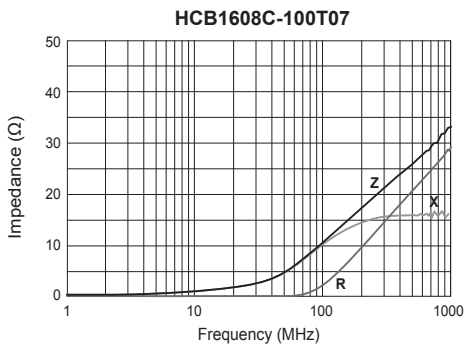
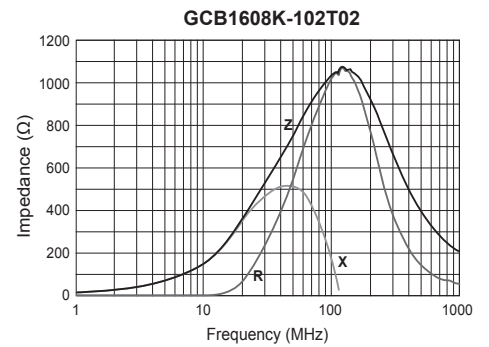
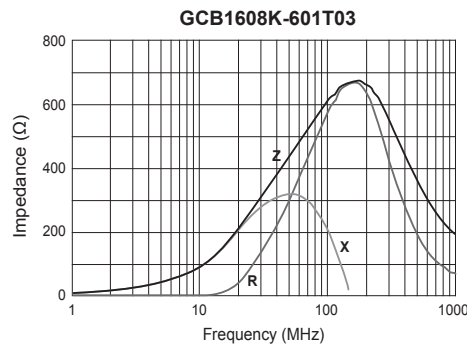
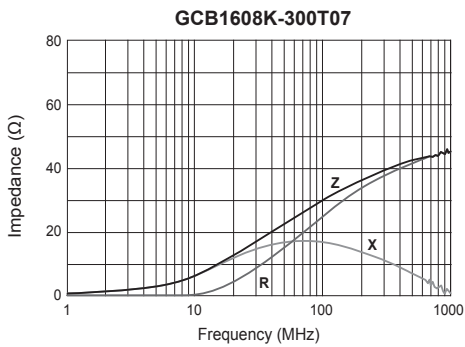
Part Number	Impedance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
GCB1608 Series				
GCB1608K-300T07-□A	30Ω±25%	100 MHz	0.20Ω	700mA
GCB1608K-600T07-□A	60Ω±25%	100 MHz	0.20Ω	700mA
GCB1608K-121T06-□A	120Ω±25%	100 MHz	0.25Ω	600mA
GCB1608K-151T06-□A	150Ω±25%	100 MHz	0.25Ω	600mA
GCB1608K-221T05-□A	220Ω±25%	100 MHz	0.30Ω	550mA
GCB1608K-301T05-□A	300Ω±25%	100 MHz	0.35Ω	500mA
GCB1608K-471T03-□A	470Ω±25%	100 MHz	0.45Ω	350mA
GCB1608K-601T03-□A	600Ω±25%	100 MHz	0.50Ω	350mA
GCB1608K-102T02-□A	1000Ω±25%	100 MHz	0.70Ω	200mA
HCB1608 Series				
HCB1608C-100T07-□A	10Ω±25%	100 MHz	0.20Ω	700mA
HCB1608C-300T06-□A	30Ω±25%	100 MHz	0.25Ω	600mA
HCB1608C-600T06-□A	60Ω±25%	100 MHz	0.30Ω	600mA
HCB1608C-121T03-□A	120Ω±25%	100 MHz	0.40Ω	300mA
HCB1608C-221T02-□A	220Ω±25%	100 MHz	0.60Ω	250mA
HCB1608C-301T02-□A	300Ω±25%	100 MHz	0.80Ω	200mA
HCB1608C-601T01-□A	600Ω±25%	100 MHz	1.20Ω	150mA
LCB1608 Series				
LCB1608K-300T30-□A	30Ω±25%	100 MHz	0.04Ω	3000mA
LCB1608K-800T30-□A	80Ω±25%	100 MHz	0.04Ω	3000mA
LCB1608K-121T20-□A	120Ω±25%	100 MHz	0.10Ω	2000mA
LCB1608K-151T20-□A	150Ω±25%	100 MHz	0.10Ω	2000mA
LCB1608K-221T20-□A	220Ω±25%	100 MHz	0.10Ω	2000mA
LCB1608K-301T10-□A	300Ω±25%	100 MHz	0.20Ω	1000mA
LCB1608K-471T10-□A	470Ω±25%	100 MHz	0.20Ω	1000mA
LCB1608K-601T10-□A	600Ω±25%	100 MHz	0.20Ω	1000mA

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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series



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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series

Electrical Characteristics

AEC
Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
GCB2012 Series				
GCB2012K-110T09-□A	11Ω±25%	100 MHz	0.10Ω	900mA
GCB2012K-170T06-□A	17Ω±25%	100 MHz	0.10Ω	600mA
GCB2012K-260T06-□A	26Ω±25%	100 MHz	0.10Ω	600mA
GCB2012K-300T06-□A	30Ω±25%	100 MHz	0.10Ω	600mA
GCB2012K-400T06-□A	40Ω±25%	100 MHz	0.10Ω	600mA
GCB2012K-600T09-□A	60Ω±25%	100 MHz	0.10Ω	900mA
GCB2012K-121T08-□A	120Ω±25%	100 MHz	0.20Ω	800mA
GCB2012K-151T08-□A	150Ω±25%	100 MHz	0.20Ω	800mA
GCB2012K-221T07-□A	220Ω±25%	100 MHz	0.30Ω	750mA
GCB2012K-301T07-□A	300Ω±25%	100 MHz	0.30Ω	700mA
GCB2012K-471T07-□A	470Ω±25%	100 MHz	0.35Ω	700mA
GCB2012K-601T05-□A	600Ω±25%	100 MHz	0.40Ω	500mA
GCB2012K-102T04-□A	1000Ω±25%	100 MHz	0.45Ω	400mA
HCB2012 Series				
HCB2012C-300T07-□A	30Ω±25%	100 MHz	0.20Ω	700mA
HCB2012C-600T07-□A	60Ω±25%	100 MHz	0.20Ω	700mA
HCB2012C-121T06-□A	120Ω±25%	100 MHz	0.25Ω	600mA
HCB2012C-151T06-□A	150Ω±25%	100 MHz	0.25Ω	600mA
HCB2012C-221T04-□A	220Ω±25%	100 MHz	0.30Ω	400mA
HCB2012C-301T04-□A	300Ω±25%	100 MHz	0.35Ω	400mA
HCB2012C-471T04-□A*	470Ω±25%	100 MHz	0.40Ω	400mA
HCB2012C-601T03-□A*	600Ω±25%	100 MHz	0.45Ω	300mA
HCB2012C-102T02-□A*	1000Ω±25%	100 MHz	0.50Ω	200mA
LCB2012 Series				
LCB2012K-300T30-□A	30Ω±25%	100 MHz	0.04Ω	3000mA
LCB2012K-800T30-□A	80Ω±25%	100 MHz	0.04Ω	3000mA
LCB2012K-121T20-□A	120Ω±25%	100 MHz	0.10Ω	2000mA
LCB2012K-151T20-□A	150Ω±25%	100 MHz	0.10Ω	2000mA
LCB2012K-221T20-□A	220Ω±25%	100 MHz	0.10Ω	2000mA
LCB2012K-301T10-□A	300Ω±25%	100 MHz	0.20Ω	1000mA
LCB2012K-471T10-□A	470Ω±25%	100 MHz	0.20Ω	1000mA
LCB2012K-601T10-□A	600Ω±25%	100 MHz	0.20Ω	1000mA

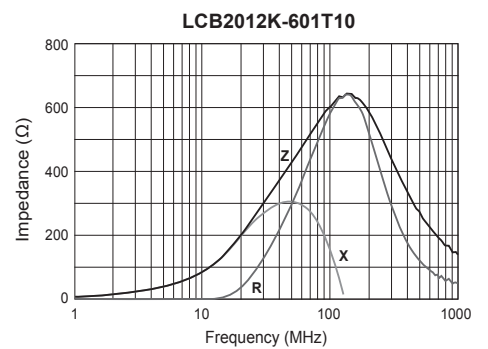
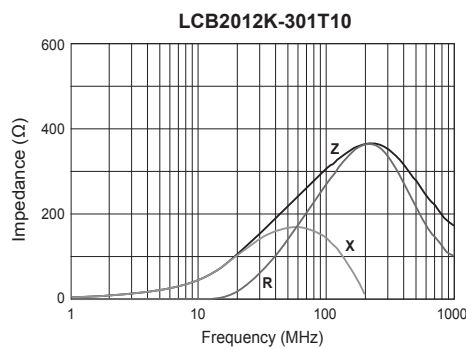
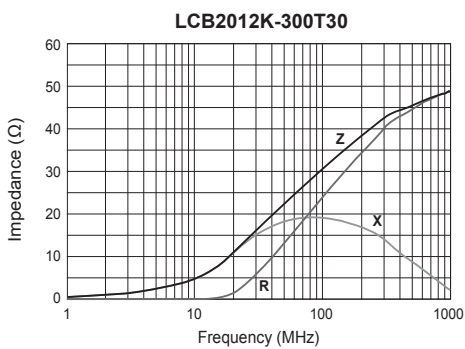
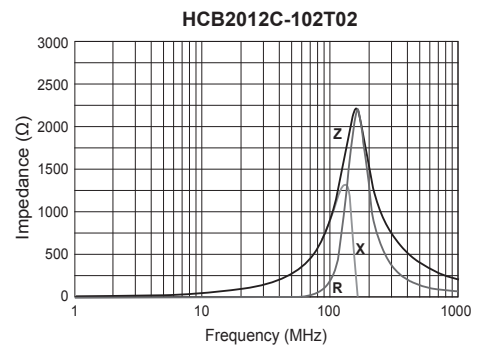
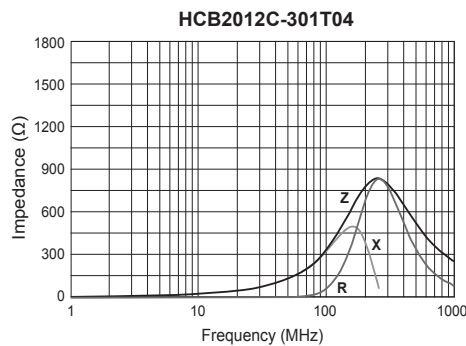
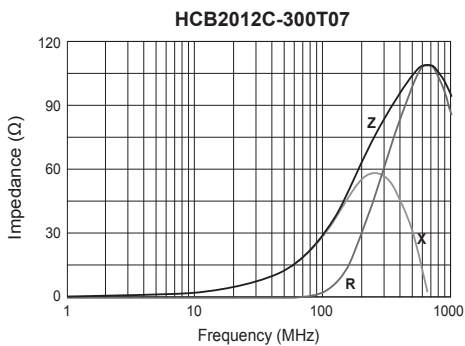
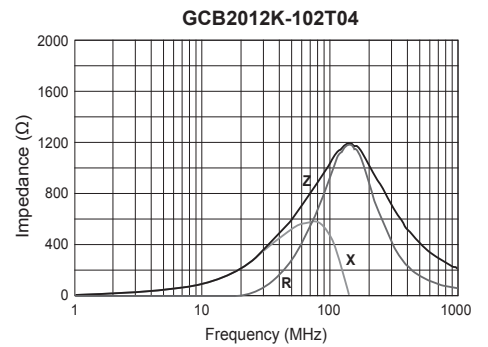
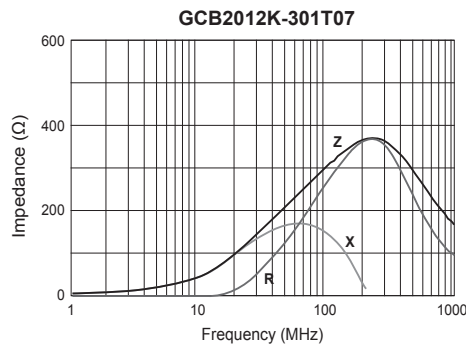
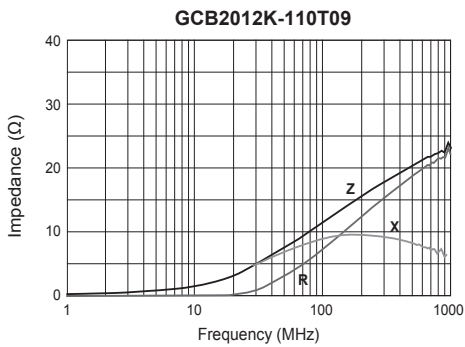
* Dimension C=1.25±0.20mm

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SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series



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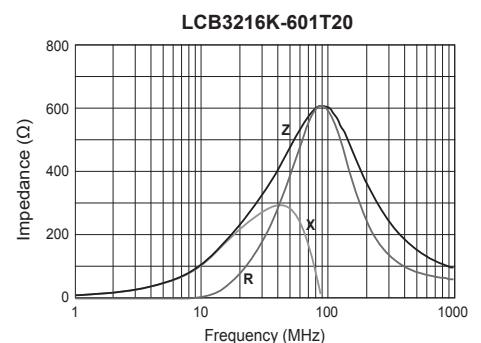
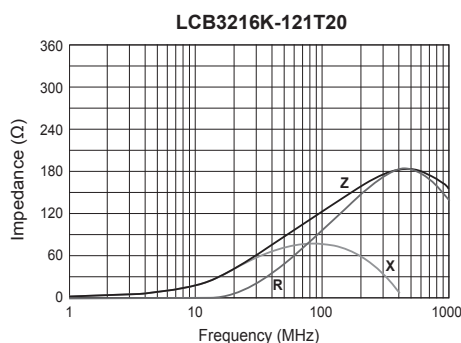
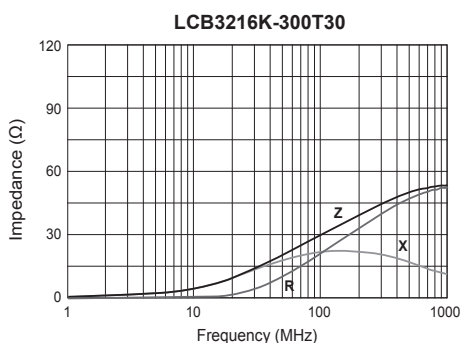
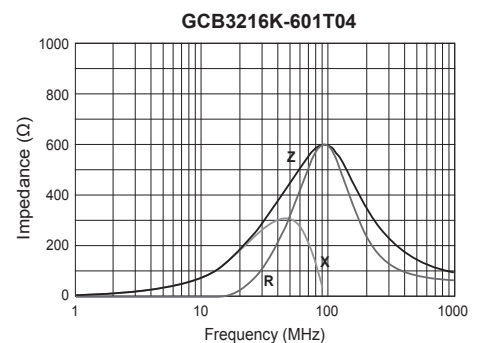
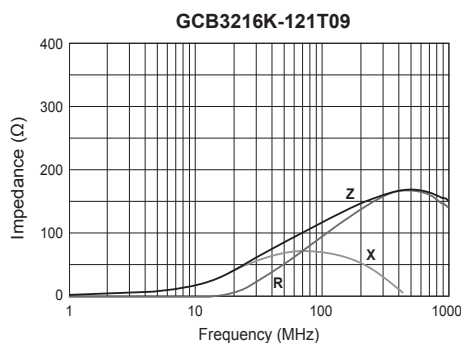
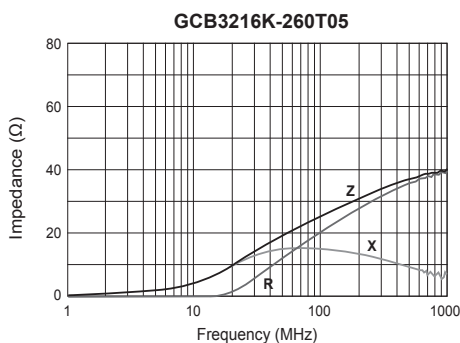
SMD Multilayer Ferrite Chip Bead

GCB/HCB/LCB Series

Electrical Characteristics

AEC
Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
GCB3216 Series				
GCB3216K-260T05-□A	26Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-310T05-□A	31Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-420T05-□A	42Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-500T05-□A	50Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-700T05-□A	70Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-900T05-□A	90Ω±25%	100 MHz	0.20Ω	500mA
GCB3216K-121T09-□A	120Ω±25%	100 MHz	0.15Ω	900mA
GCB3216K-151T09-□A	150Ω±25%	100 MHz	0.15Ω	900mA
GCB3216K-201T06-□A	200Ω±25%	100 MHz	0.35Ω	600mA
GCB3216K-221T07-□A	220Ω±25%	100 MHz	0.35Ω	700mA
GCB3216K-301T07-□A	300Ω±25%	100 MHz	0.35Ω	700mA
GCB3216K-471T04-□A	470Ω±25%	100 MHz	0.35Ω	400mA
GCB3216K-601T04-□A	600Ω±25%	100 MHz	0.40Ω	400mA
LCB3216 Series				
LCB3216K-300T30-□A	30Ω±25%	100 MHz	0.040Ω	3000mA
LCB3216K-500T30-□A	50Ω±25%	100 MHz	0.040Ω	3000mA
LCB3216K-800T30-□A	80Ω±25%	100 MHz	0.040Ω	3000mA
LCB3216K-121T20-□A	120Ω±25%	100 MHz	0.100Ω	2000mA
LCB3216K-151T20-□A	150Ω±25%	100 MHz	0.100Ω	2000mA
LCB3216K-301T10-□A	300Ω±25%	100 MHz	0.200Ω	1000mA
LCB3216K-471T10-□A	470Ω±25%	100 MHz	0.200Ω	1000mA
LCB3216K-501T30-□A	500Ω±25%	100 MHz	0.040Ω	3000mA
LCB3216K-601T20-□A	600Ω±25%	100 MHz	0.100Ω	2000mA



- The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.