



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.

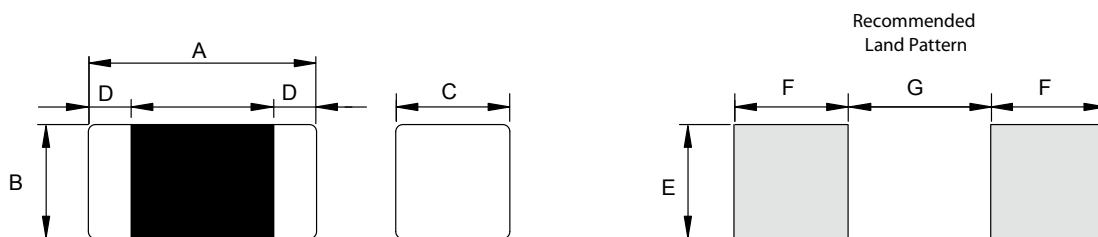
Part Numbering

LCB **1005** **K** - **300** **T** **20**

① ② ③ ④ ⑤ ⑥

- 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: 20=2000mA)

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	0.30	0.25	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±0.2	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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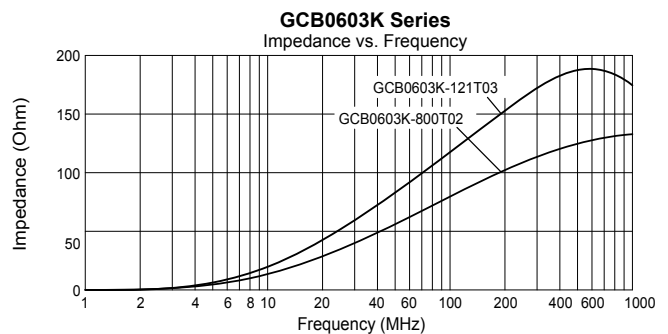
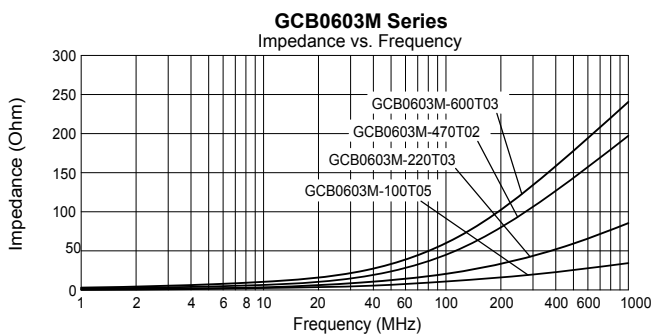
GCB/HCB/LCB Series

General Technical Data

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

Electrical Characteristics

Part Number	Impedance	Test Frequency	Max. of DC Resistance	Rated Current
GCB0603 Series				
GCB0603M-100T05	10 ohm±5ohm	100 MHz	0.15 ohm	500 mA
GCB0603M-220T03	22 ohm±25%	100 MHz	0.20 ohm	300 mA
GCB0603M-470T02	47 ohm±25%	100 MHz	0.30 ohm	200 mA
GCB0603M-600T03	60 ohm±25%	100 MHz	0.30 ohm	300 mA
GCB0603K-800T02	80 ohm±25%	100 MHz	0.40 ohm	200 mA
GCB0603K-121T03	120 ohm±25%	100 MHz	0.50 ohm	300 mA



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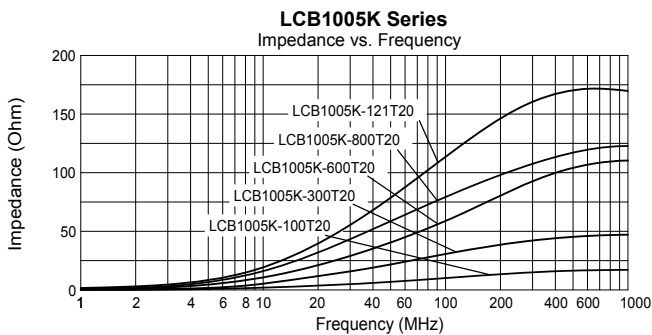
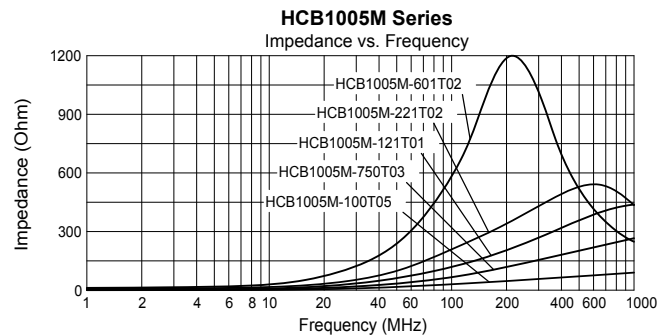
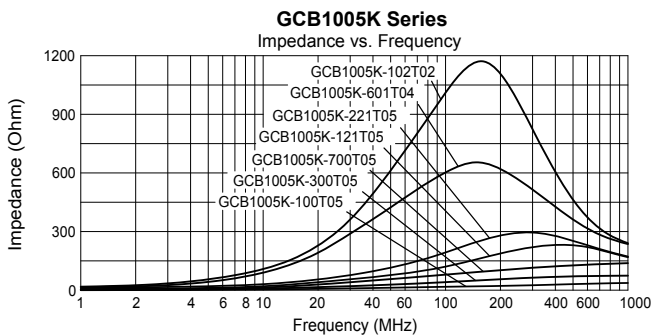


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Electrical Characteristics

Part Number	Impedance	Test Frequency	Max. of DC Resistance	Rated Current
GCB1005 Series				
GCB1005K-100T05	10 ohm±25%	100 MHz	0.10 ohm	500 mA
GCB1005K-300T05	30 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB1005K-700T05	70 ohm±25%	100 MHz	0.25 ohm	500 mA
GCB1005K-121T05	120 ohm±25%	100 MHz	0.30 ohm	500 mA
GCB1005K-221T05	220 ohm±25%	100 MHz	0.40 ohm	500 mA
GCB1005K-601T04	600 ohm±25%	100 MHz	0.80 ohm	400 mA
GCB1005K-102T02	1000 ohm±25%	100 MHz	1.20 ohm	200 mA
HCB1005 Series				
HCB1005M-100T05	10 ohm±25%	100 MHz	0.10 ohm	500 mA
HCB1005M-750T03	75 ohm±25%	100 MHz	0.40 ohm	300 mA
HCB1005M-121T01	120 ohm±25%	100 MHz	0.45 ohm	80 mA
HCB1005M-221T02	220 ohm±25%	100 MHz	0.60 ohm	200 mA
HCB1005M-601T02	600 ohm±25%	100 MHz	0.80 ohm	200 mA
LCB1005 Series				
LCB1005K-100T20	10 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1005K-300T20	30 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1005K-600T20	60 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1005K-800T20	80 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1005K-121T20	120 ohm±25%	100 MHz	0.10 ohm	2000 mA



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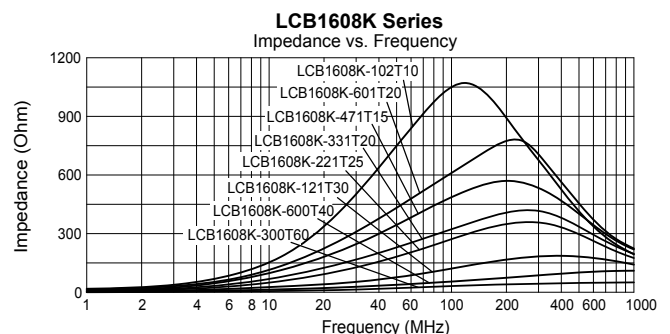
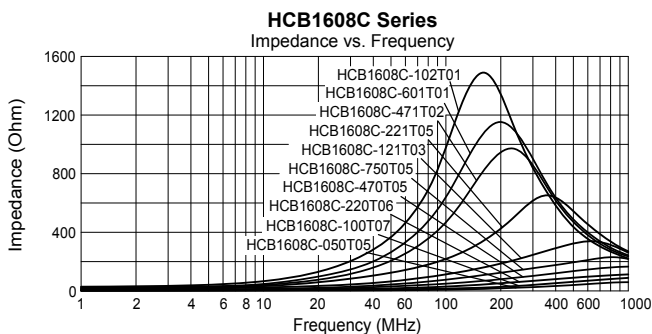
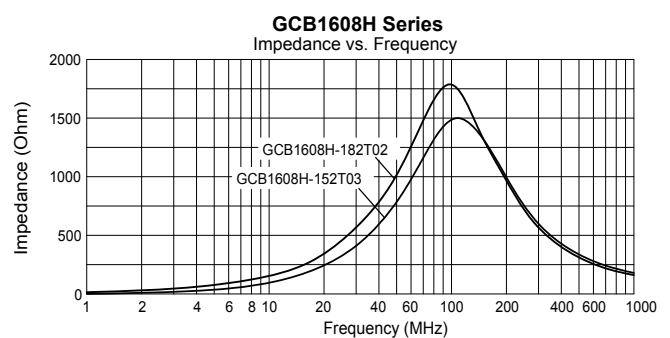
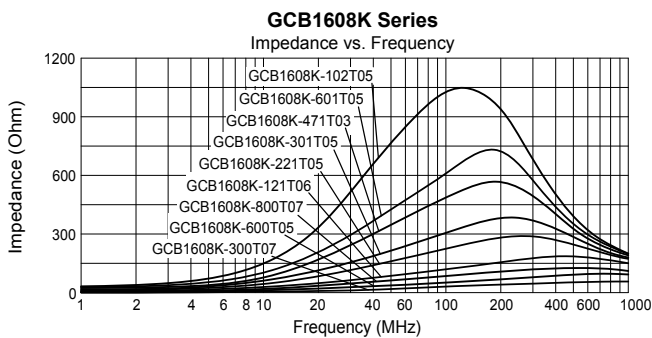


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GCB/HCB/LCB Series

Electrical Characteristics

Part Number	Impedance	Test Frequency	Max. of DC Resistance	Rated Current
GCB1608 Series				
GCB1608K-300T07	30 ohm±25%	100 MHz	0.20 ohm	700 mA
GCB1608K-600T05	60 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB1608K-800T07	80 ohm±25%	100 MHz	0.20 ohm	700 mA
GCB1608K-121T06	120 ohm±25%	100 MHz	0.25 ohm	600 mA
GCB1608K-221T05	220 ohm±25%	100 MHz	0.30 ohm	550 mA
GCB1608K-301T05	300 ohm±25%	100 MHz	0.35 ohm	500 mA
GCB1608K-471T03	470 ohm±25%	100 MHz	0.45 ohm	350 mA
GCB1608K-601T05	600 ohm±25%	100 MHz	0.50 ohm	500 mA
GCB1608K-102T05	1000 ohm±25%	100 MHz	0.70 ohm	500 mA
GCB1608H-152T03	1500 ohm±25%	100 MHz	1.00 ohm	300 mA
GCB1608H-182T02	1800 ohm±25%	100 MHz	1.00 ohm	200 mA
HCB1608 Series				
HCB1608C-050T05	5 ohm±25%	100 MHz	0.20 ohm	500 mA
HCB1608C-100T07	10 ohm±25%	100 MHz	0.20 ohm	700 mA
HCB1608C-220T06	22 ohm±25%	100 MHz	0.25 ohm	600 mA
HCB1608C-470T05	47 ohm±25%	100 MHz	0.30 ohm	500 mA
HCB1608C-750T05	75 ohm±25%	100 MHz	0.30 ohm	500 mA
HCB1608C-121T03	120 ohm±25%	100 MHz	0.40 ohm	300 mA
HCB1608C-221T05	220 ohm±25%	100 MHz	0.45 ohm	500 mA
HCB1608C-471T02	470 ohm±25%	100 MHz	0.85 ohm	200 mA
HCB1608C-601T01	600 ohm±25%	100 MHz	1.20 ohm	150 mA
HCB1608C-102T01	1000 ohm±25%	100 MHz	1.50 ohm	80 mA
LCB1608 Series				
LCB1608K-300T60	30 ohm±25%	100 MHz	0.01 ohm	6000 mA
LCB1608K-600T40	60 ohm±25%	100 MHz	0.03 ohm	4000 mA
LCB1608K-121T30	120 ohm±25%	100 MHz	0.04 ohm	3000 mA
LCB1608K-221T25	220 ohm±25%	100 MHz	0.05 ohm	2500 mA
LCB1608K-331T20	330 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1608K-471T15	470 ohm±25%	100 MHz	0.15 ohm	1500 mA
LCB1608K-601T20	600 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB1608K-102T10	1000 ohm±25%	100 MHz	0.20 ohm	1000 mA



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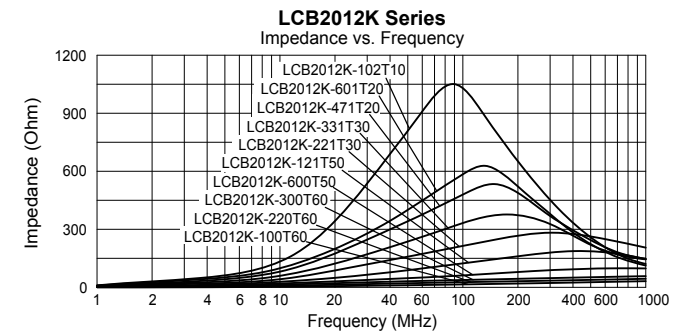
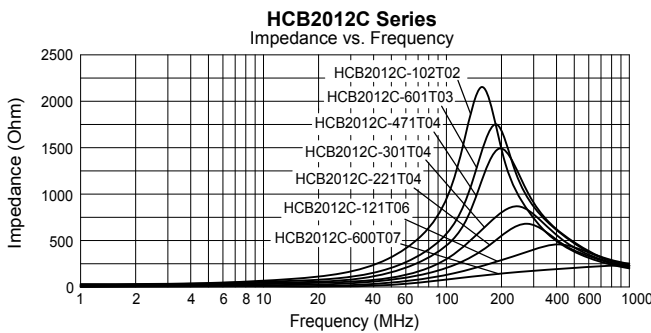
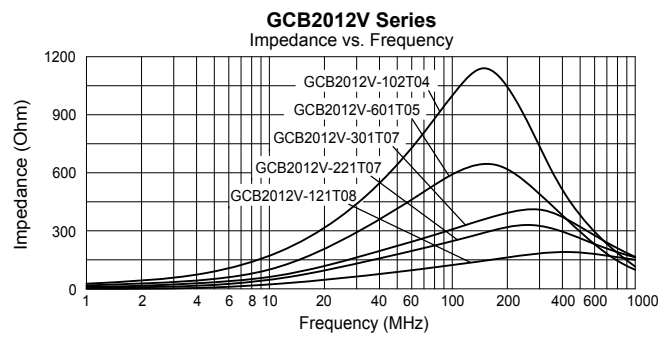
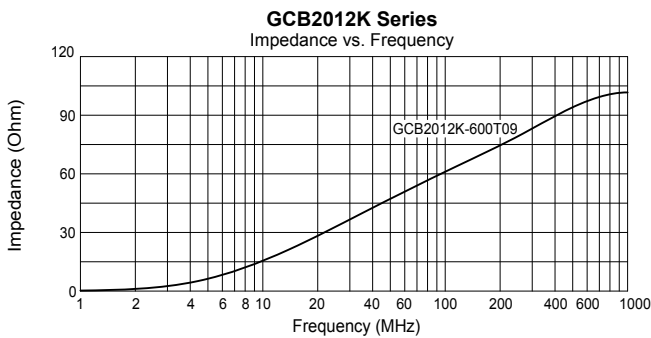


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Electrical Characteristics

Part Number	Impedance	Test Frequency	Max. of DC Resistance	Rated Current
GCB2012 Series				
GCB2012K-600T09	60 ohm±25%	100 MHz	0.10 ohm	900 mA
GCB2012V-121T08	120 ohm±25%	100 MHz	0.20 ohm	800 mA
GCB2012V-221T07	220 ohm±25%	100 MHz	0.30 ohm	750 mA
GCB2012V-301T07	300 ohm±25%	100 MHz	0.30 ohm	700 mA
GCB2012V-601T05	600 ohm±25%	100 MHz	0.40 ohm	500 mA
GCB2012V-102T04	1000 ohm±25%	100 MHz	0.45 ohm	400 mA
HCB2012 Series				
HCB2012C-600T07	60 ohm±25%	100 MHz	0.20 ohm	700 mA
HCB2012C-121T06	120 ohm±25%	100 MHz	0.25 ohm	600 mA
HCB2012C-221T04	220 ohm±25%	100 MHz	0.30 ohm	400 mA
HCB2012C-301T04	300 ohm±25%	100 MHz	0.35 ohm	400 mA
HCB2012C-471T04	470 ohm±25%	100 MHz	0.40 ohm	400 mA
HCB2012C-601T03	600 ohm±25%	100 MHz	0.45 ohm	300 mA
HCB2012C-102T02	1000 ohm±25%	100 MHz	0.50 ohm	200 mA
LCB2012 Series				
LCB2012K-100T60	10 ohm±25%	100 MHz	0.01 ohm	6000 mA
LCB2012K-220T60	22 ohm±25%	100 MHz	0.01 ohm	6000 mA
LCB2012K-300T60	30 ohm±25%	100 MHz	0.01 ohm	6000 mA
LCB2012K-600T50	60 ohm±25%	100 MHz	0.02 ohm	5000 mA
LCB2012K-121T50	120 ohm±25%	100 MHz	0.02 ohm	5000 mA
LCB2012K-221T30	220 ohm±25%	100 MHz	0.04 ohm	3000 mA
LCB2012K-331T25	330 ohm±25%	100 MHz	0.05 ohm	2500 mA
LCB2012K-471T20	470 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB2012K-601T20	600 ohm±25%	100 MHz	0.10 ohm	2000 mA
LCB2012K-102T10	1000 ohm±25%	100 MHz	0.20 ohm	1000 mA



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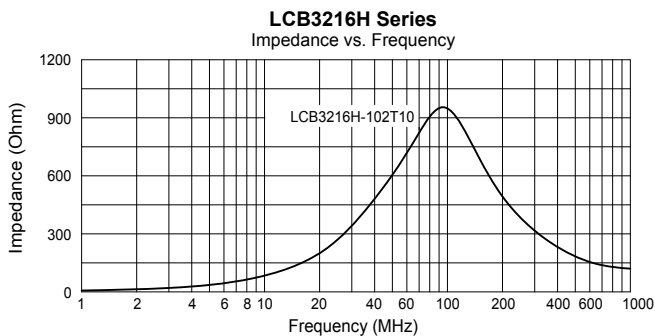
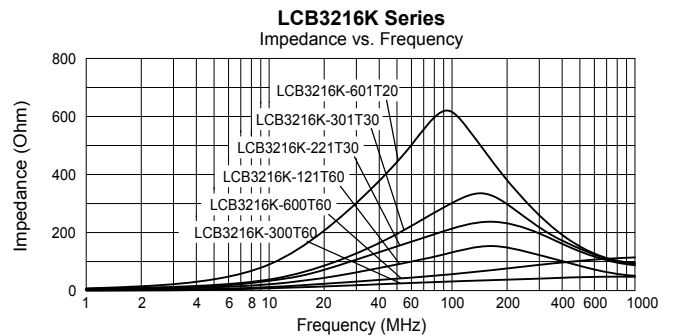
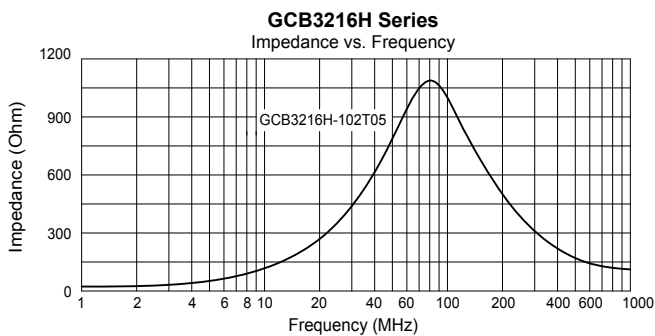
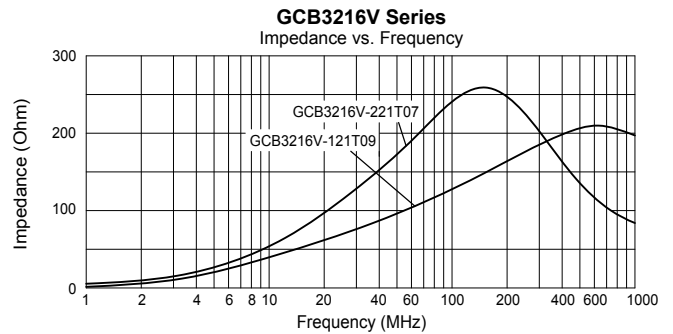
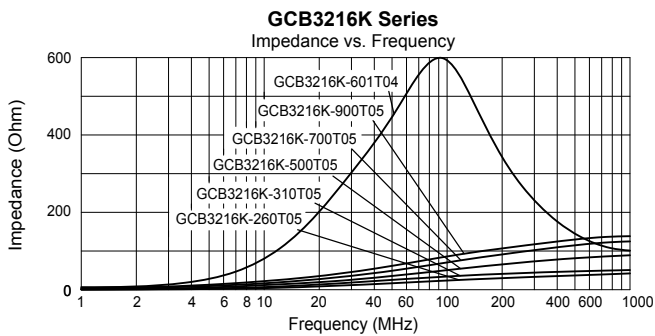


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Electrical Characteristics

Part Number	Impedance	Test Frequency	Max. of DC Resistance	Rated Current
GCB3216 Series				
GCB3216K-260T05	26 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB3216K-310T05	31 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB3216K-500T05	50 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB3216K-700T05	70 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB3216K-900T05	90 ohm±25%	100 MHz	0.20 ohm	500 mA
GCB3216V-121T09	120 ohm±25%	100 MHz	0.15 ohm	900 mA
GCB3216V-221T07	220 ohm±25%	100 MHz	0.35 ohm	700 mA
GCB3216K-601T04	600 ohm±25%	100 MHz	0.40 ohm	400 mA
GCB3216H-102T05	1000 ohm±25%	100 MHz	0.60 ohm	500 mA
LCB3216 Series				
LCB3216K-300T60	30 ohm±25%	100 MHz	0.010 ohm	6000 mA
LCB3216K-600T60	60 ohm±25%	100 MHz	0.010 ohm	6000 mA
LCB3216K-121T60	120 ohm±25%	100 MHz	0.018 ohm	6000 mA
LCB3216K-221T30	220 ohm±25%	100 MHz	0.040 ohm	3000 mA
LCB3216K-301T30	300 ohm±25%	100 MHz	0.040 ohm	3000 mA
LCB3216K-601T20	600 ohm±25%	100 MHz	0.100 ohm	2000 mA
LCB3216H-102T10	1000 ohm±25%	100 MHz	0.200 ohm	1000 mA



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