



Surface Mount Ferrite Beads

BCS, BCT, BCU & BCA Series, Specifications



Part Number Determination

BCT0603PFBB4101					
BCT	0603	P	FB	B4	101
SERIES	SIZE	TOLERANCE	CHIP BEAD TYPE	PACKAGING	IMPEDANCE
BCS=0402 BCT=0603 BCU=0805 BCA=1206	0402 0603 0805 1206	K=±10% M=±20% P=±25%	FB=Multilayer Ferrite Chip Bead FC=Low Current Ferrite Chip Bead FS=High Speed Ferrite Chip Bead	B1=1,000/Reel B2=2,000/Reel B3=3,000/Reel B4=4,000/Reel B0=10,000/Reel E0=10,000/Reel (0402 only) BT=12,000/Reel	2 Significant digits + 1 multiplier 050=5 ohm 101=100 ohm 152=1500 ohm

Electrical Characteristics

Impedance Range: 0402 - 600Ω & 1KΩ
0603 - 30Ω to 2KΩ
0805 - 7Ω to 1KΩ
1206 - 26Ω to 600Ω

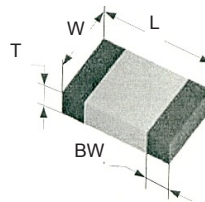
Tolerance: ±25%

Operating Temp. Range: -55 to 125°C

Termination: Nickel barrier with solder overlaid

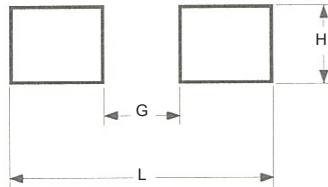
Package Dimensions (in/mm)

Size	Length (L)	Width (W)	Thickness (T)	Termination (BW)
0402	0.039±0.004 (1.00±0.10)	0.020±0.004 (0.50±0.10)	0.020±0.004 (0.50±0.10)	0.010±0.004 (0.25±0.10)
0603	0.063±0.006 (1.60±0.15)	0.031±0.006 (0.80±0.15)	0.031±0.006 (0.80±0.15)	0.014±0.006 (0.36±0.15)
0805	0.079±0.008 (2.00±0.20)	0.049±0.008 (1.25±0.20)	0.035±0.008 (0.90±0.20)	0.020±0.010 (0.51±0.25)
1206	0.126±0.008 (3.20±0.20)	0.063±0.008 (1.60±0.20)	0.043±0.008 (1.10±0.20)	0.020±0.010 (0.51±0.25)

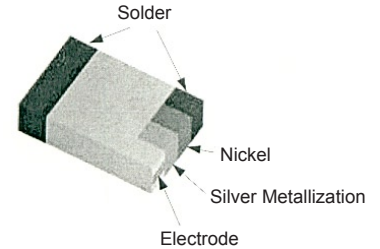


Land Pattern (mm/in)

Size	L	G	H
0402(1005)	1.3 (0.051)	0.4 (0.016)	0.5 (0.020)
0603(1608)	2.6 (0.102)	0.6 (0.023)	0.8 (0.031)
0805(2012)	3.0 (0.118)	1.0 (0.039)	1.0 (0.039)
1206(3216)	4.4 (0.173)	2.2 (0.087)	1.4 (0.055)



Construction



0402 Specifications

Part Number	Impedance Ohm @ 100MHz	Max. DCR Ohm	Max. Current mA
BCS0402PFCE0601	600	1.1	50
BCS0402PFCE0102	1000	1.5	50

0603 Specifications

Part Number	Impedance Ohm @ 100 MHz	Max. DCR Ohm	Max. Current mA
BCU0805PFBB4070	7	0.1	800
BCU0805PFBB4100	10	0.1	800
BCU0805PFBB4110	11	0.1	800
BCU0805PFBB4120	12	0.1	800
BCU0805PFBB4170	17	0.1	800
BCU0805PFBB4300	30	0.1	800
BCU0805PFBB4300	30	0.025	3000
BCU0805PFBB4400	40	0.1	800
BCU0805PFBB4400	40	0.03	2000
BCU0805PFBB4450	45	0.03	2000
BCU0805PFBB4500	50	0.1	800
BCU0805PFBB4600	60	0.1	800
BCU0805PFBB4600	60	0.025	3000
BCU0805PFBB4750	75	0.1	800
BCU0805PFBB4800	80	0.15	400
BCU0805PFBB4800	80	0.1	1000
BCU0805PFBB4900	90	0.15	400
BCU0805PFBB4101	100	0.15	400
BCU0805PFBB4121	120	0.15	400
BCU0805PFBB4151	150	0.3	200
BCU0805PFBB4181	180	0.3	200
BCU0805PFBB4201	200	0.3	200
BCU0805PFBB4201	200	0.15	1000
BCU0805PFBB4221	220	0.05	2000
BCU0805PFBB4301	300	0.3	200
BCU0805PFBB4301	300	0.15	1000
BCU0805PFBB4401	400	0.3	200
BCU0805PFBB4421	420	0.3	200
BCU0805PFBB4601	600	0.3	200
BCU0805PFBB4601	600	0.2	1000
BCU0805PFBB4102	1000	0.4	200

1206 Specifications

Part Number	Impedance Ohm @ 100MHz	Max. DCR Ohm	Max. Current mA
BCA1206PFPB3260	26	0.02	3000
BCA1206PFPB3300	30	0.02	3000
BCA1206PFPB3310	31	0.02	3000
BCA1206PFPB3500	50	0.025	3000
BCA1206PFPB3700	70	0.03	2000
BCA1206PFPB3800	80	0.03	2000
BCA1206PFPB3900	90	0.1	1000
BCA1206PFPB3101	100	0.1	1000
BCA1206PFPB3121	120	0.1	1000
BCA1206PFPB3601	600	0.2	1000

0603 Specifications

Part Number	Impedance Ohm @ 100MHz	Max. DCR Ohm	Max. Current mA
BCT0603PFBB4300	30	0.1	400
BCT0603PFPB4300	30	0.03	3000
BCT0603PFBB4400	40	0.1	400
BCT0603PFBB4600	60	0.2	300
BCT0603PFPB4600	60	0.1	500
BCT0603PFBB4750	75	0.2	300
BCT0603PFBB4800	80	0.2	300
BCT0603PFBB4900	90	0.3	250
BCT0603PFBB4101	100	0.3	250
BCT0603PFBB4121	120	0.3	250
BCT0603PFPB4141	140	0.3	250
BCT0603PFBB4151	150	0.3	250
BCT0603PFBB4181	180	0.3	250
BCT0603PFBB4221	220	0.3	250
BCT0603PFPB4301	300	0.35	230
BCT0603PFPB4421	420	0.4	210
BCT0603PFPB4601	600	0.45	210
BCT0603PFSB4601	600	0.65	200
BCT0603PFPB4102	1000	0.6	190
BCT0603PFCB4152	1500	0.7	50
BCT0603PFCB4182	1800	0.95	50
BCT0603PFCB4202	2000	0.8	50