



Recommended PCB Layout

▨ Solder Area

Specifications

Material

Insulator:  
 Standard: Polymer, LCP, UL94V-0  
 Option: Polyamide, Nylon 6T, UL94V-0  
 Contact: Copper Alloy

Plating

Contact: See Ordering Grid

Electrical

Current Rating: 3 Amp Per Pin  
 Contact Resistance: 20 mΩ max.  
 Insulation Resistance: 1000 MΩ min.  
 Dielectric Withstand Voltage: 600 V AC

Mechanical & Environmental

Operating Temperature: -40°C to +105°C  
 Soldering Process

LCP (Standard)

IR Reflow: 260°C for 10 sec.  
 Wave: 250°C for 5-10 sec.  
 Manual Solder: 350°C for 3-5 sec.

Nylon 6T (Option)

IR Reflow: 260°C for 10 sec.  
 Wave: 230°C for 5-10 sec.  
 Manual Solder: 350°C for 3-5sec.

Mates with (Subject to Pin Length)

BG120	BG121	BG140	BG150	BG151
BG152	BG160	BG165	BG166	BG170
BG175	BG180	BG185	BG190	BG195
BG200	BG210	BG220	BG225	

BG121 Recommended mating length 3.00mm  
 BG166 Recommended mating length 3.00mm

Number of Contacts	Dimensions			
	A	B	C	G
4	2.54	5.08	-	5.00
6	5.08	7.62	2.54	6.00
8	7.62	10.16	5.08	
10	10.16	12.70	7.62	
12	12.70	15.24	10.16	
14	15.24	17.78	12.70	
16	17.78	20.32	15.24	
18	20.32	22.86	17.78	8.50
20	22.86	25.40	20.32	
22	25.40	27.94	22.86	
24	27.94	30.48	25.40	
26	30.48	33.02	27.94	
28	33.02	35.56	30.48	
30	35.56	38.10	33.02	
32	38.10	40.64	35.56	
34	40.64	43.18	38.10	
36	43.18	45.72	40.64	
38	45.72	48.26	43.18	
40	48.26	50.80	45.72	
42	50.80	53.34	48.26	
44	53.34	55.88	50.80	
46	55.88	58.42	53.34	
48	58.42	60.96	55.88	
50	60.96	63.50	58.42	
52	63.50	66.04	60.96	
54	66.04	68.58	63.50	
56	68.58	71.12	66.04	
58	71.12	73.66	68.58	
60	73.66	76.20	71.12	
62	76.20	78.74	73.66	
64	78.74	81.28	76.20	
66	81.28	83.82	78.74	
68	83.82	86.36	81.28	
70	86.36	88.90	83.82	
72	88.90	91.44	86.36	
74	91.44	93.98	88.90	
76	93.98	96.52	91.44	
78	96.52	99.06	93.98	
80	99.06	101.60	96.52	



No. of Contacts  
04 to 80

Contact Plating

A = Gold Flash All Over (Standard)  
 B = Selective Gold Flash Contact Area /Tin On Tail  
 C = Tin All Over  
 G = 10µ" Gold Contact Area/Tin On Tail  
 I = 30µ" Gold Contact Area/Tin On Tail

Locating Peg

0 = Without  
 1 = With

Packing Options

B = Tape and Reel with Cap (Standard)  
 D = Tube  
 E = Tube with Cap

Insulator Material

L = LCP (Standard)  
 N = Nylon 6T

Dimension F (1/100mm) (PCB to Top of Insulator)

0350 = 3.50mm (Standard)  
 Or specify custom length  
 eg 0400 = 4.00mm

Dimension E (1/100mm) (Footprint Width)

0737 = 7.37mm (Standard)  
 Or specify custom footprint width  
 eg 1000 = 10.00mm (minimum 7.37mm)

Dimension D (1/100mm) (Post Height)

0300 = 3.00mm (Standard)  
 0450 = 4.50mm (Standard)  
 0650 = 6.50mm (Standard)  
 Or specify custom post height  
 eg 0550 = 5.50mm

Part Number		Product Description	
BG050		2.54mm Pitch Pin Header, Dual Row, Surface Mount, Vertical	
Drawing Date		23rd December 2014	
By	CC	Tolerances (Except as Noted)	Units:
Detail	BG050 E PCN	Length X. ± 0.30 X.X ± 0.20 X.XX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	E4		3rd Angle Projection
Date	31/07/17		



This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE



www.gct.co

Not to Scale	Drawn By LYH	Sheet No. 1/1
--------------	--------------	---------------