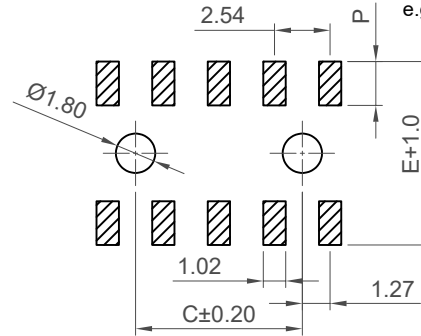
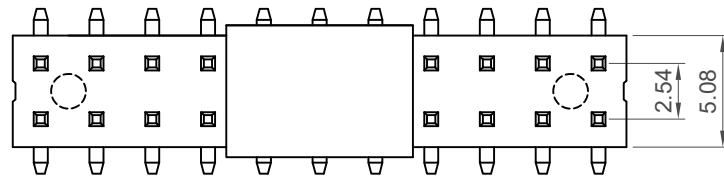
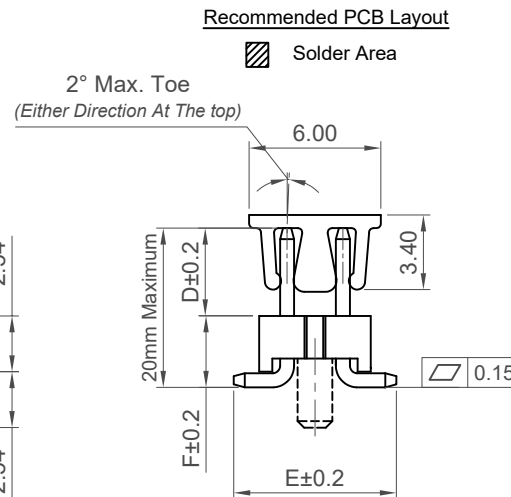
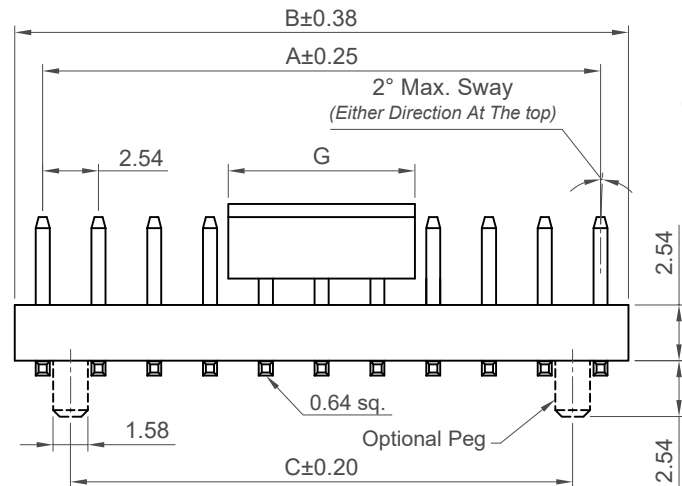
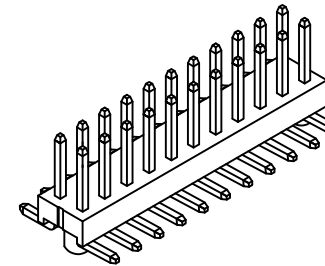


H
G
F
E
D
C
B
A



Note: $P=(E+1-2)/2$
e.g.: $E=7.37\text{mm}$, $P=3.185\text{mm}$



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.

Manual Solder: 350°C for 3-5 sec.

Nylon 6T/9T (Option)

IR Reflow: 260°C for 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	8.50
18	20.32	22.86	17.78	
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	

Ordering Grid

BG050	XX	X	X	XXXX	XXXX	XXXX	X	X	Request Samples and Quotation
-------	----	---	---	------	------	------	---	---	-------------------------------

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
9 = Nylon 9T

Dimension F (1/100mm) (PCB to Top of Insulator)
0350 = 3.50mm (Standard)
Or specify custom length
eg 0320 = 3.20mm (Minimum)

Dimension E (1/100mm) (Footprint Width)
0737 = 7.37mm (Standard)
Or specify custom footprint width
eg 1000 = 10.00mm (minimum 7.37mm)
(Tooling charge may be apply)

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
(Maximum 1500=15.00mm)
(Minimum 0100=1.00mm)

Part Number		Product Description	
BG050		2.54mm Pitch Pin Header, Dual Row, Surface Mount, Vertical	
Drawing Date			
23rd December 2014			
By	KY	Tolerances (Except as Noted)	Units:
Detail	BG050 E PCN	Angle	Metric (mm)
Revision	E7	X. ± 0.30	
Date	24/10/24	X.X ± 0.20	
		X.XX ± 0.15	
		X.XXX ± 0.10	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[GCT:](#)

[BG050-06A-0-0450-0737-0350-L-D](#)