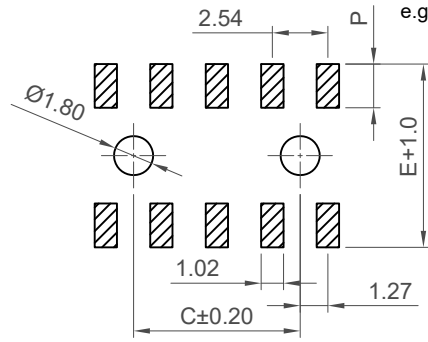
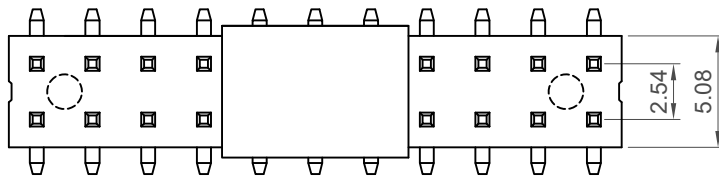
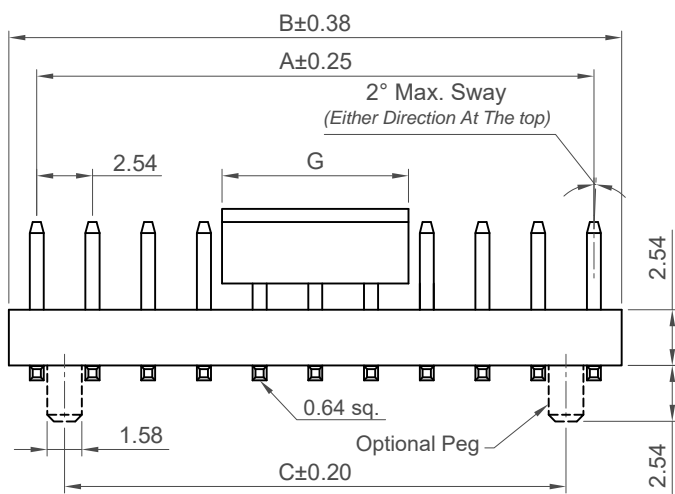
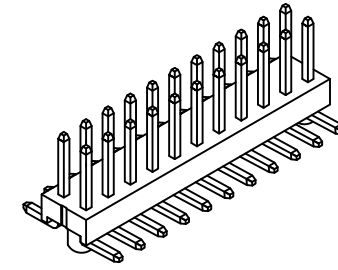


H
G
F
E
D
C
B
A

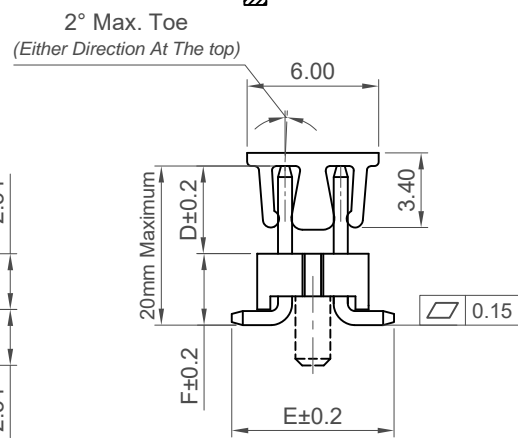


Note: $P=(E+1-2)/2$
e.g.: $E=7.37\text{mm}$, $P=3.185\text{mm}$



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

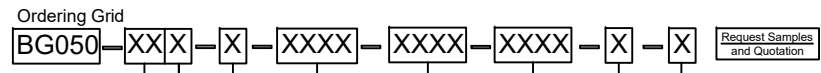
Electrical
Current Rating: 3 Amp Per Pin
Contact Resistance: 20 mΩ max.
Insulation Resistance: 1000 MΩ min.
Dielectric Withstand Voltage: 600 V AC

Mechanical & Environmental
Operating Temperature: -40°C to +105°C
Soldering Process
LCP (Standard)
IR Reflow: 260°C for 10 sec.
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 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	CC	Tolerances (Except as Noted)	Units:
Detail	BG050 E PCN	Length X. ± 0.30 XX ± 0.20 X.XX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	E6	Angle	3rd Angle Projection
Date	30/06/21		



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