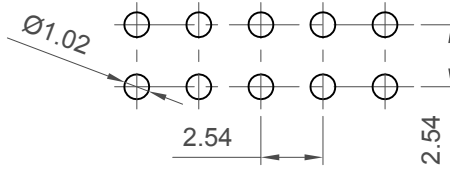
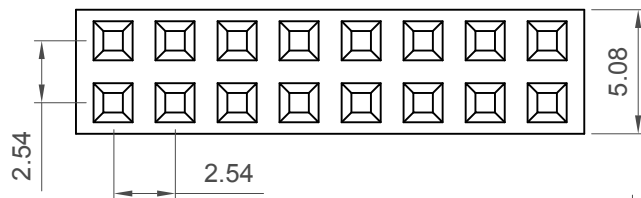
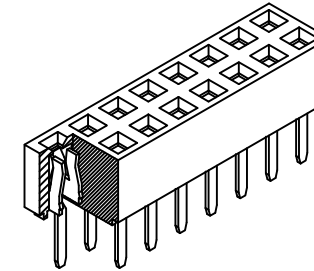


H
G
F
E
D
C
B
A

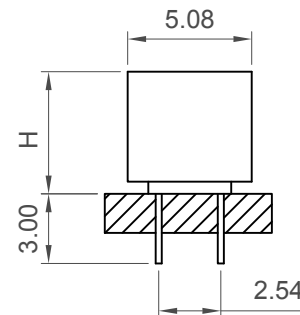
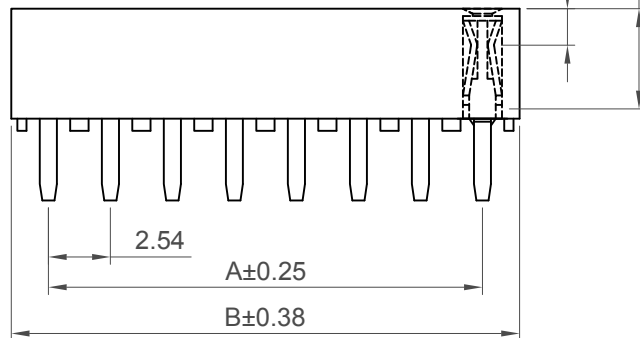


Recommended PCB Layout
Tolerance: $\pm 0.05\text{mm}$



Insertion Depth & Pin Size Table			
Insulator Height 'H' (mm)	Min Insertion Depth (mm)	Max Insertion Depth (mm)	Pin Size (mm)
A=5.0	1.49	5.00	0.70 x 0.25
B=7.1	2.03	5.00	0.60 x 0.25

Min. Insertion Depth (See Table)
Max. Insertion Depth (See Table)



Ordering Grid

BG165-XX-X-X-X-X Request Samples and Quotation

No. of Contacts
04 to 80

Packing Options
D = Tube (Standard)
E = Tube with Cap
F = Tube with Film
G = Plastic Box
H = Tray (4 contacts only)

Insulator Material
N = Nylon 6T (Standard)
P = PBT
L = LCP

Contact Plating

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

Height H

A = 5.0mm (Standard)
B = 7.1mm

Specifications

Material

Contact: Copper Alloy

Insulator:

Standard: Polyamide, Nylon 6T, UL 94V-0

Options: Polymer, LCP, UL 94V-0

Polyester, PBT, UL 94V-0

Plating

See ordering grid.

Electrical

Current Rating: 3 Amp (per contact)

Contact Resistance: 20 m Ω max.

Insulation Resistance: 1000 M Ω min.

Dielectric Withstand Voltage: 600 V AC

Mechanical & Environmental

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

Soldering Process:

Nylon 6T (Standard):

IR Reflow: 260°C for 10 sec.

Wave: 230°C for 5-10 sec.

Manual Solder: 350°C for 3-5 sec

PBT (Option)

Manual solder: 330°C for 3-5 sec.

(Not suitable for hi-temp process)

LCP (Option):

IR Reflow: 260°C for 10 sec.

Wave: 250°C for 5-10 sec.

Manual Solder: 350°C for 3-5 sec

Mates with (Subject to pin length)

BG025 BG040 BG041 BG045 BG050

BG065 BG066 BG070 BG085

Number of Contacts	Dimensions	
	A	B
4	2.54	5.58
6	5.08	8.12
8	7.62	10.66
10	10.16	13.20
12	12.70	15.74
14	15.24	18.28
16	17.78	20.82
18	20.32	23.36
20	22.86	25.90
22	25.40	28.44
24	27.94	30.98
26	30.48	33.52
28	33.02	36.06
30	35.56	38.60
32	38.10	41.14
34	40.64	43.68
36	43.18	46.22
38	45.72	48.76
40	48.26	51.30
42	50.80	53.84
44	53.34	56.38
46	55.88	58.92
48	58.42	61.46
50	60.96	64.00
52	63.50	66.54
54	66.04	69.08
56	68.58	71.62
58	71.12	74.16
60	73.66	76.70
62	76.20	79.24
64	78.74	81.78
66	81.28	84.32
68	83.82	86.86
70	86.36	89.40
72	88.90	91.94
74	91.44	94.48
76	93.98	97.02
78	96.52	99.56
80	99.06	102.10

Part Number		Product Description	
BG165		2.54mm Pitch Socket	
Drawing Date		Dual Row, Through-Hole, Vertical	
30th October 2006			
By	CC	Tolerances (Except as Noted)	
Detail	BG165 G PCN	Length X. ± 0.30 X.X ± 0.20 X.XX ± 0.15 X.XXX ± 0.10	Angle X° $\pm 5^\circ$ X.X° $\pm 2^\circ$ X.XX° $\pm 1^\circ$ X.XXX° $\pm 0.5^\circ$
Revision	G2	Units: Metric (mm)	
Date	20/11/17	3rd Angle Projection	



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

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

Mouser Electronics

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[BG165-04-A-A-N-H](#) [BG165-08-A-A-N-D](#) [BG165-12-A-A-N-D](#) [BG165-14-A-A-N-D](#) [BG165-16-A-A-N-D](#) [BG165-18-A-A-N-D](#) [BG165-20-A-A-N-D](#) [BG165-22-A-A-N-D](#) [BG165-24-A-A-N-D](#) [BG165-26-A-A-N-D](#) [BG165-28-A-A-N-D](#) [BG165-30-A-A-N-D](#) [BG165-32-A-A-N-D](#) [BG165-34-A-A-N-D](#) [BG165-36-A-A-N-D](#) [BG165-38-A-A-N-D](#) [BG165-40-A-A-N-D](#) [BG165-42-A-A-N-D](#) [BG165-44-A-A-N-D](#) [BG165-46-A-A-N-D](#) [BG165-48-A-A-N-D](#) [BG165-50-A-A-N-D](#) [BG165-52-A-A-N-D](#) [BG165-54-A-A-N-D](#) [BG165-56-A-A-N-D](#) [BG165-58-A-A-N-D](#) [BG165-60-A-A-N-D](#) [BG165-62-A-A-N-D](#) [BG165-64-A-A-N-D](#) [BG165-66-A-A-N-D](#) [BG165-68-A-A-N-D](#) [BG165-70-A-A-N-D](#) [BG165-72-A-A-N-D](#) [BG165-74-A-A-N-D](#) [BG165-76-A-A-N-D](#) [BG165-78-A-A-N-D](#) [BG165-80-A-A-N-D](#)