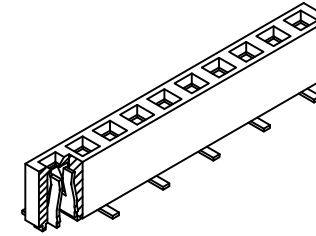
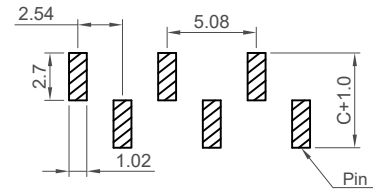
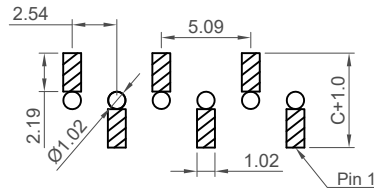
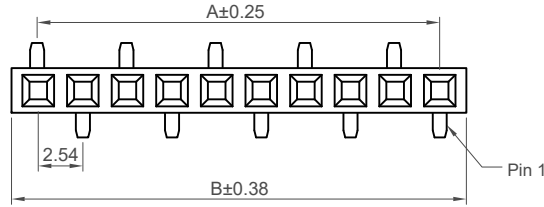
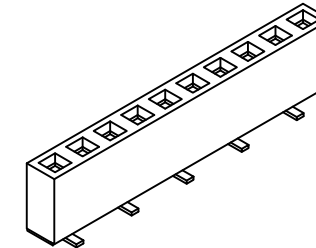
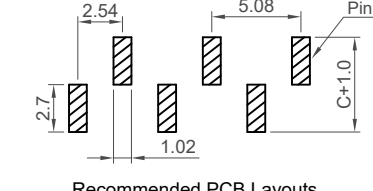
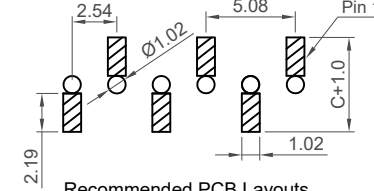
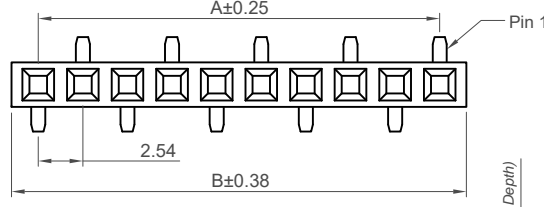


R1 Type



R2 Type



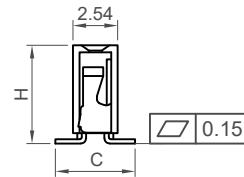
Insulator Height = 5.0mm: Pin Size = 0.75mm x 0.25mm
 Insulator Height = 7.5mm: Pin Size = 0.60mm x 0.25mm

Insulator Height = 5.0mm: Min. Insertion Depth = 1.55mm
 Insulator Height = 7.5mm: Min. Insertion Depth = 2.16mm

(Minimum Insertion Depth)

Recommended PCB Layouts
 Bottom Entry General Tolerance ±0.05
 Solder Area

Recommended PCB Layouts
 Top Entry General Tolerance ±0.05
 Solder Area



Specifications

Material

Contact: Phosphor Bronze
 Insulator Material:
 Standard: Polyamide, Nylon 6T, UL 94V-0
 Options: Polymer, LCP, UL 94V-0

Electrical

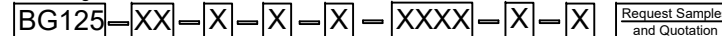
Current Rating: 3 Amp Per Pin
 Insulator Resistance: 1000 MΩ min.
 Contact Resistance: 20 mΩ max.
 Dielectric Withstanding: AC 600 V

Environmental & Mechanical

Operating Temperature: -40° 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
 LCP (Option) -
 IR Reflow: 260°C for 10 sec.
 Wave: 250°C for 5-10 sec.
 Manual Solder: 350°C for 3-5 sec

Ordering Grid



No. of Contacts
 02 to 40

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

Height H

1 = 5.00mm (Standard)
2 = 7.50mm

Packing Options

C = Tape and Reel with Film (Standard)
A = Tape and Reel
B = Tape and Reel with Cap
D = Tube
E = Tube with Cap
F = Tube with Film

Insulator Material

N = Nylon 6T (Standard)
L = LCP

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

0440 = 4.40mm (Standard when 'H' = 5.00mm)
0420 = 4.20mm (Standard when 'H' = 7.50mm)

Type

1 = R1 Type
2 = R2 Type

Mates with (subject to pin length)

BG020 BG030 BG031 BG035
 BG055 BG060 BG075 BG080

For bottom entry applications, stringent soldering control & pin alignment are required as lead to pad misalignment could cause incorrect mating.

Number of Contacts	Dimensions		
	A	B (H=5.0)	B (H=7.5)
2	2.54	5.58	5.08
3	5.08	8.12	7.62
4	7.62	10.66	10.16
5	10.16	13.20	12.70
6	12.70	15.74	15.24
7	15.24	18.28	17.78
8	17.78	20.82	20.32
9	20.32	23.36	22.86
10	22.86	25.90	25.40
11	25.40	28.44	27.94
12	27.94	30.98	30.48
13	30.48	33.52	33.02
14	33.02	36.06	35.56
15	35.56	38.60	38.10
16	38.10	41.14	40.64
17	40.64	43.68	43.18
18	43.18	46.22	45.72
19	45.72	48.76	48.26
20	48.26	51.30	50.80
21	50.80	53.84	53.34
22	53.34	56.38	55.88
23	55.88	58.92	58.42
24	58.42	61.46	60.96
25	60.96	64.00	63.50
26	63.50	66.54	66.04
27	66.04	69.08	68.58
28	68.58	71.62	71.12
29	71.12	74.16	73.66
30	73.66	76.70	76.20
31	76.20	79.24	78.74
32	78.74	81.78	81.28
33	81.28	84.32	83.82
34	83.82	86.86	86.36
35	86.36	89.40	88.90
36	88.90	91.94	91.44
37	91.44	94.48	93.98
38	93.98	97.02	96.52
39	96.52	99.56	99.06
40	99.06	102.10	101.60

Part Number		Product Description	
BG125		2.54mm Pitch Socket	
Drawing Date		Single Row, Surface Mount, Vertical, Dual Entry	
30th October 2006			
By	CC	Tolerances (Except as Noted)	Units:
Detail	BG125 H PCN	Length X. ± 0.30 XX ± 0.20 XXX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	H3	Angle X.° ± 5° X.X° ± 3° X.XX° ± 2° X.XXX° ± 1°	RoHS COMPLIANT 2011/65/UE Deca-SIDE
Date	13/10/19	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



Not to Scale	Drawn By AJO	Sheet No. 1/1
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H
G
F
E
D
C
B
A

Mouser Electronics

Authorized Distributor

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