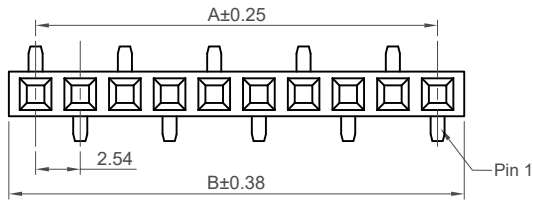
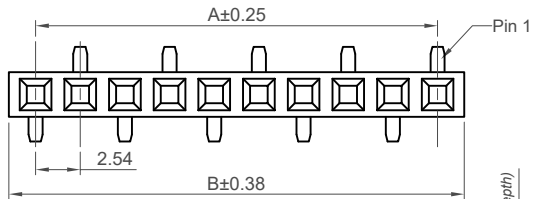


R1 Type



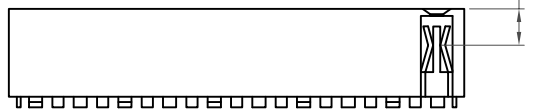
R2 Type



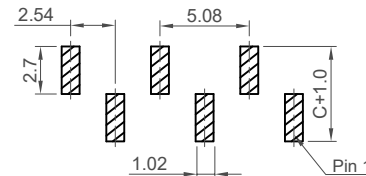
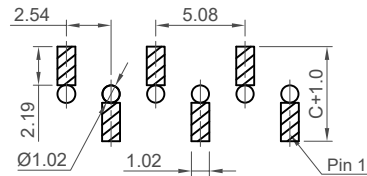
Insulator Height = 5.0mm: Pin Size = 0.75mm x 0.25mm
Insulator Height = 7.5mm: Pin Size = 0.60mm x 0.25mm

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

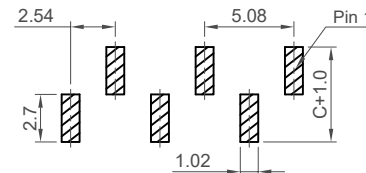
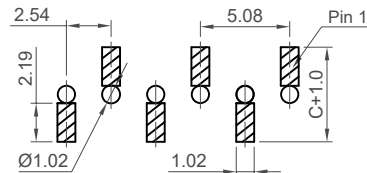
(Minimum Insertion Depth)



R1 Type

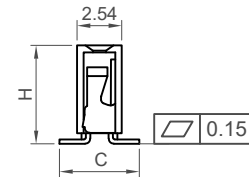


R2 Type



Recommended PCB Layouts
Bottom Entry General Tolerance ± 0.05
Solder Area

Recommended PCB Layouts
Top Entry General Tolerance ± 0.05
Solder Area



Ordering Grid

BG125-XX-X-X-X-XXXX-X-X

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

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.

Specifications

Material

Contact: Phosphor Bronze
Insulator

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

Request Samples and Quotation

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

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

Part Number		Product Description	
BG125		2.54mm Pitch Socket	
Drawing Date		Single Row, Surface Mount, Vertical, Dual Entry	
30th October 2006			
By	KY	Tolerances (Except as Noted)	Units: Metric (mm)
Detail	BG125 I PCN	Length X: ± 0.30 Angle X: $\pm 5^\circ$	
Revision	I	X.X ± 0.20 X.XX ± 0.15	X.XX $\pm 3^\circ$ X.XX $\pm 2^\circ$
Date	12/06/24	X.XXX ± 0.10	X.XXX $\pm 1^\circ$



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