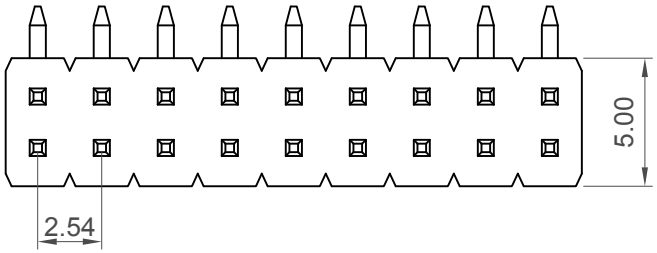
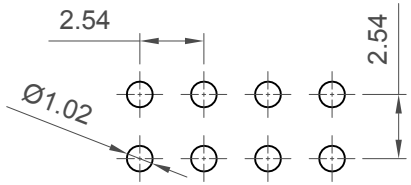
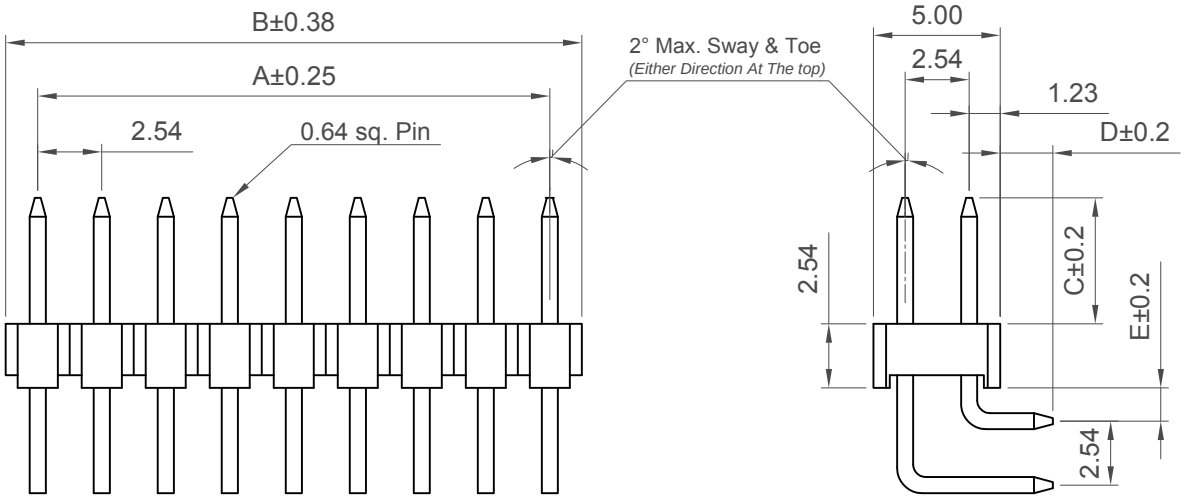
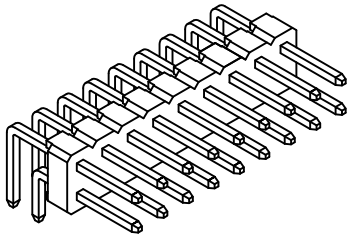




Recommended PCB Layout





Number of Contacts	Dimensions	
	A	B
4	2.54	5.08
6	5.08	7.62
8	7.62	10.16
10	10.16	12.70
12	12.70	15.24
14	15.24	17.78
16	17.78	20.32
18	20.32	22.86
20	22.86	25.40
22	25.40	27.94
24	27.94	30.48
26	30.48	33.02
28	33.02	35.56
30	35.56	38.10
32	38.10	40.64
34	40.64	43.18
36	43.18	45.72
38	45.72	48.26
40	48.26	50.80
42	50.80	53.34
44	53.34	55.88
46	55.88	58.42
48	58.42	60.96
50	60.96	63.50
52	63.50	66.04
54	66.04	68.58
56	68.58	71.12
58	71.12	73.66
60	73.66	76.20
62	76.20	78.74
64	78.74	81.28
66	81.28	83.82
68	83.82	86.36
70	86.36	88.90
72	88.90	91.44
74	91.44	93.98
76	93.98	96.52
78	96.52	99.06
80	99.06	101.60

Specifications

Material
Contact: Copper Alloy
Insulator Material:
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 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
PBT (Option) -
Manual Solder: 330°C for 3-5 sec.
(*Not suitable for hi-temp process*)

Mates with (*Subject to pin length*)
BG120 BG121 BG140 BG150 BG152
BG160 BG165 BG166 BG170 BG175
BG180 BG185 BG190 BG195 BG200
BG210 BG220
Perfect Planar Mating with
BG151 BG225

Ordering Grid

BG085 — XX — 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

Dimension C *(1/100mm) (Post Height)*
0600 = 6.00mm *(Standard)*
Or specify custom Post Height
eg. 0250 = 2.50mm
(Maximum 1200 = 12.00mm)
(Minimum 0100 = 1.00mm)

Dimension D *(1/100mm) (Insulator to Pin End)*
0300 = 3.00mm *(Standard)*
Or specify custom Insulator to Pin End length
eg. 0250 = 2.50mm
(Maximum 0600 = 6.00mm)
(Minimum 0100 = 1.00mm)

Dimension E *(1/100mm) (Insulator to Pin Centre)*
0120 = 1.20mm *(Standard)*
Or specify custom Insulator to Pin Centre length
eg. 0250 = 2.50mm
(Maximum 0500 = 5.00mm)
(Minimum 0032 = 0.32mm)

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

Packing Options
G = Plastic Box *(Standard - 04 Contacts)*
D = Tube *(Standard - 06-80 contacts)*
E = Tube with Cap

Part Number	Product Description
BG085	2.54mm Pitch Pin Header Dual Row, Through Hole, Horizontal
Drawing Date 30th October 2006	

By	CC
Detail	BG085 F PCN
Revision	F2
Date	10/10/17

Tolerances (Except as Noted)

Length	Angle
X. ± 0.30	X.° ± 5°
X.X ± 0.20	X.X° ± 2°
X.XX ± 0.15	X.XX° ± 1°
X.XXX ± 0.10	X.XXX° ± 0.5°

Units: Metric (mm)

3rd Angle Projection

RoHS COMPLIANT 2011/65/EU Deca-BDE

GCT
www.gct.co

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