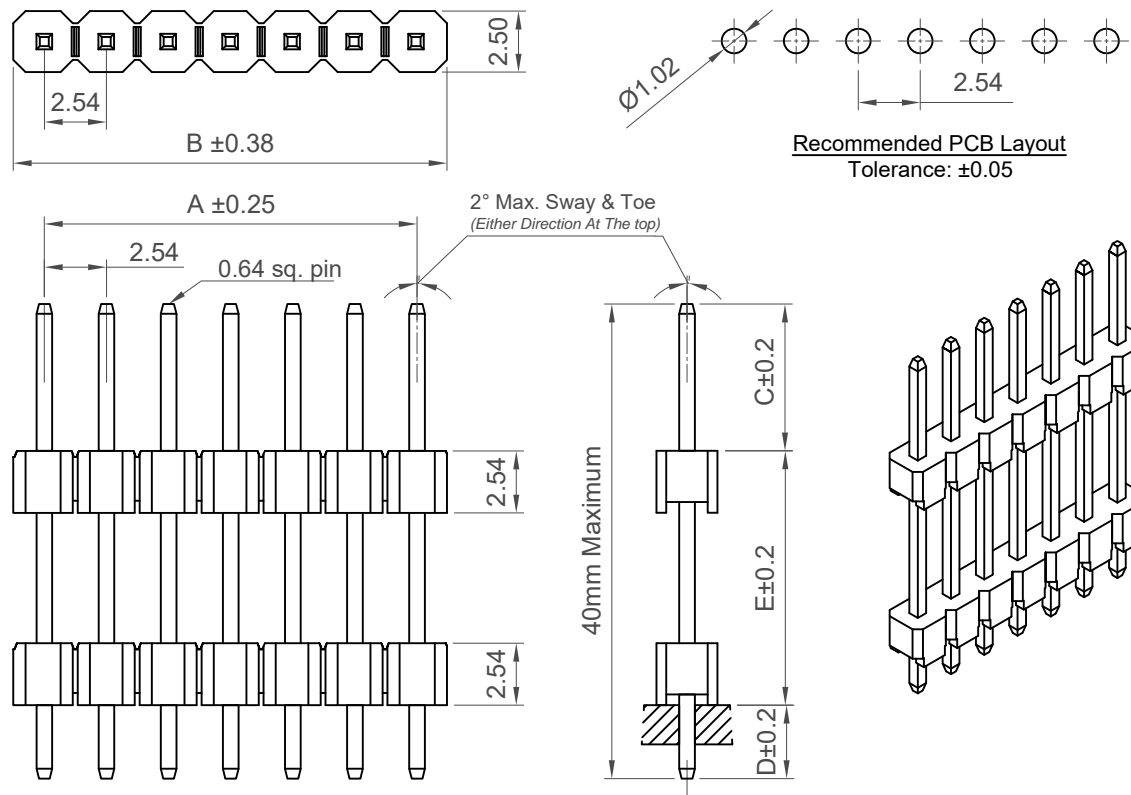


H  
G  
F  
E  
D  
C  
B  
A



**Recommended PCB Layout**  
Tolerance: ±0.05

**Specifications**

**Material**  
Insulator:  
Standard: Polyamide, Nylon 6T, UL94V-0  
Options: Polymer, LCP, UL94V-0  
Polyester, PBT, 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

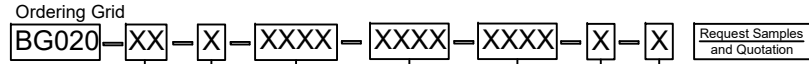
**Mechanical & Environmental**  
Operating Temperature: -40°C to +105°C

**Soldering Process**  
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 3-5sec  
PBT (Option)  
Manual Solder: 330°C for 3-5sec  
(not suitable for hi-temp process)

**Mates with (Subject to Pin Length)**  
BG090 BG095 BG096 BG100 BG110  
BG115 BG125 BG126 BG130 BG135  
BG145 BG205 BG230

BG090 Recommended mating length 4.00mm  
BG095 Recommended mating length 4.00mm  
BG115 Recommended mating length 4.00mm  
BG125 Recommended mating length 4.00mm  
BG126 Recommended mating length 4.00mm

No. of Contacts	Dimensions	
	A	B
2	2.54	5.08
3	5.08	7.62
4	7.62	10.16
5	10.16	12.70
6	12.70	15.24
7	15.24	17.78
8	17.78	20.32
9	20.32	22.86
10	22.86	25.40
11	25.40	27.94
12	27.94	30.48
13	30.48	33.02
14	33.02	35.56
15	35.56	38.10
16	38.10	40.64
17	40.64	43.18
18	43.18	45.72
19	45.72	48.26
20	48.26	50.80
21	50.80	53.34
22	53.34	55.88
23	55.88	58.42
24	58.42	60.96
25	60.96	63.50
26	63.50	66.04
27	66.04	68.58
28	68.58	71.12
29	71.12	73.66
30	73.66	76.20
31	76.20	78.74
32	78.74	81.28
33	81.28	83.82
34	83.82	86.36
35	86.36	88.90
36	88.90	91.44
37	91.44	93.98
38	93.98	96.52
39	96.52	99.06
40	99.06	101.60



**Ordering Grid**  
BG020-XX-X-XXXX-XXXX-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

**Packing Options**  
G = Plastic Box (Standard)  
A = Tape & Reel (Available for 02- 35 contacts)  
B = Tape & Reel with Cap (Available for 02- 35 contacts)  
D = Tube  
E = Tube with Cap

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

**Dimension C (1/100mm) (Post Height)**  
0400 = 4.00mm (Standard)  
0640 = 6.40mm (Standard)  
Or specify Custom Post Height  
eg. 0250 = 2.50mm  
(Maximum 1000=10.00mm)  
(Minimum 0050=0.50mm)

**Dimension E (1/100mm) (Stack Height)**  
1040 = 10.40mm (Standard)  
Or specify Custom Stack Height  
eg. 0508 = 5.08mm (minimum)  
(Maximum 2500=25.00mm)

**Dimension D (1/100mm) (Tail Length)**  
0300 = 3.00mm (Standard)  
Or specify Custom Tail Length  
eg. 0250 = 2.50mm  
(Maximum 1000=10.00mm)  
(Minimum 0050=0.50mm)

*If lower stacking heights required  
contact GCT for lower profile  
insulator options*

Part Number		Product Description	
BG020		2.54mm Pitch Elevated Pin Header, Single Row, Through-Hole, Vertical	
Drawing Date		30th October 2006	
By	CC	Tolerances (Except as Noted)	Units:
Detail	BG020 E PCN	Length X. ± 0.30 X.X ± 0.20 X.XX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	E7	Angle X.° ± 5° X.X° ± 2° X.XX° ± 1° X.XXX° ± 0.5°	3rd Angle Projection
Date	08/03/23		



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

**GCT**  
www.gct.co

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