

**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

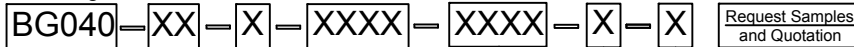
**Soldering Process**  
 Nylon 6T (Standard)  
 IR Reflow: 260°C for 10 sec.  
 Wave: 230°C for 5-10 sec  
 Manual Solder : 350°C for 3-5 sec  
 LCP (Option)  
 IR Reflow: 260°C for 10 sec.  
 Wave: 250°C for 5-10 sec.  
 Manual Solder: 350°C for 3-5sec  
 PBT (Option )  
 Manual Solder: 330°C for 3-5sec  
 (not suitable for hi-temp process)

**Mates with (Subject to Pin Length)**  
 BG120 BG121 BG140 BG150 BG151 BG152 BG160  
 BG165 BG166 BG170 BG175 BG180 BG185 BG190  
 BG195 BG200 BG210 BG220 BG225

BG121 Recommended mating length 3.00mm  
 BG166 Recommended mating length 3.00mm

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

**Ordering Grid**



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)**

**0300 = 3.00mm (Standard)**  
**0450 = 4.50mm (Standard)**  
**0650 = 6.50mm (Standard)**  
 Or specify custom Post Height  
 eg 0250 = 2.50mm  
 (Maximum 2000=20.00mm)  
 (Minimum 0050=0.50mm)

**Packing Options**

**G = Plastic Box (Standard)**  
 D = Tube  
 E = Tube with Cap  
**Insulator Material**  
**N = Nylon 6T (Standard)**  
 P = PBT  
 L = LCP

**Dimension D (1/100mm) (Tail Length)**

**0300 = 3.00mm (Standard)**  
 Or specify custom Tail Length  
 eg 0250 = 2.50mm  
 (Maximum 2000=20.00mm)  
 (Minimum 0050=0.50mm)

Part Number		Product Description	
BG040		2.54mm Pitch Pin Header	
Drawing Date		Dual Row, Through Hole, Vertical	
30th October 2006			
By	CC	Tolerances (Except as Noted)	Units:
Detail	BG040 F PCN	Length X ± 0.30 X.X ± 0.20 X.XX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	F3	Angle X° ± 5° X.X° ± 2° X.XX° ± 1° X.XXX° ± 0.5°	3rd Angle Projection
Date	06/09/17		



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

1 2 3 4 5 6 7 8