

Recommended PCB Layout

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)

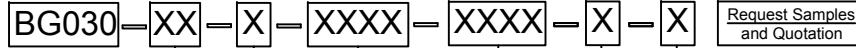
Mates with (Subject to Pin Length)

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

| Number of Contacts | Dimensions | |
|--------------------|------------|--------|
| | A | B |
| 1 | / | 2.54 |
| 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



No. of Contacts
01 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
 L = Matte Tin

Dimension C (1/100mm) (Post Height)

0400 = 4.00mm (Standard)
0450 = 4.50mm (Standard)
0650 = 6.50mm (Standard)
 Or specify custom Post Height
 e.g. 0250 = 2.50mm
 (Maximum 2000=20.00mm)
 (Minimum 0050=0.50mm)

Packing Options

G = Plastic Box (Standard)
 B = Tape & Reel with Cap
 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
 e.g. 0250 = 2.50mm
 (Maximum 2000=20.00mm)
 (Minimum 0050=0.50mm)

| | | | |
|-------------------|----------|---|-------------|
| Part Number | | Product Description | |
| BG030 | | 2.54mm pitch Pin Header | |
| Drawing Date | | Single Row, Through-Hole, Vertical | |
| 1st November 2006 | | | |
| By | CC | Tolerances (Except as Noted) | Units: |
| Detail | BG030 | Length X. ± 0.30 | Metric (mm) |
| Revision | G5 | Angle X.X ± 0.20 | |
| Date | 06/09/17 | X.XX ± 0.15 | |
| | | X.XXX ± 0.10 | |
| | | X.XX° ± 1° | |
| | | X.XXX° ± 0.5° | |
| | | 3rd Angle Projection | |
| | | RoHS COMPLIANT 2011/65/EC | |
| | | 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 LYH | |
| | | Sheet No. 1/1 | |

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