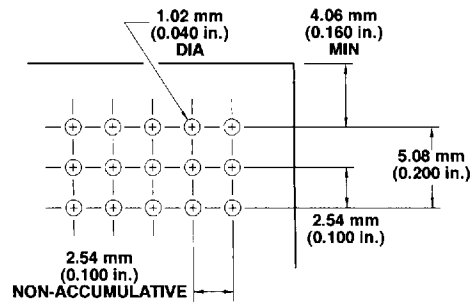
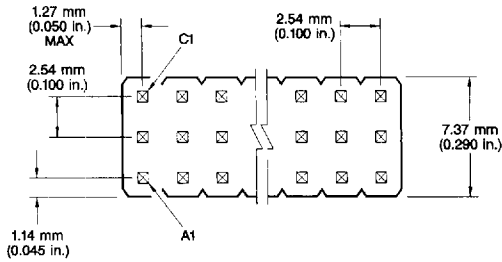
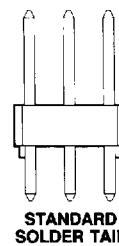
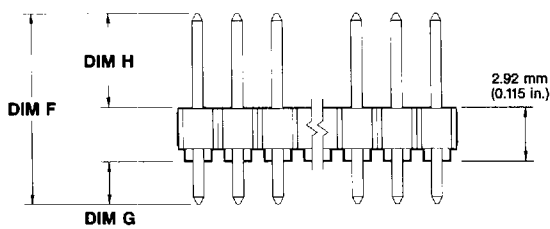


### Description

#### Straight 3-Row BergStik® II Headers



RECOMMENDED HOLE PATTERN



A183396-0199 A

Base number specifies pin length and style

□□□□□-XY Y H

This digit specifies plating

These digits specify total number of columns (3 through 36 available)

High temperature plastic

### Ordering Data

0.76 μm (30 μin.) gold over 1.27 μm (50 μin.) nickel  
0.38 μm (15 μin.) gold over 1.27 μm (50 μin.) nickel  
1.27 μm (50 μin.) gold over 1.27 μm (50 μin.) nickel

-1YY  
-2YY  
-3YY

3.81 μm (150 μin.) tin-lead  
0.38 μm (15 μin.) GXT™ over 1.27 μm (50 μin.) nickel  
0.76 μm (30 μin.) GXT™ over 1.27 μm (50 μin.) nickel

### Plating

-4YY  
-5YY  
-6YY

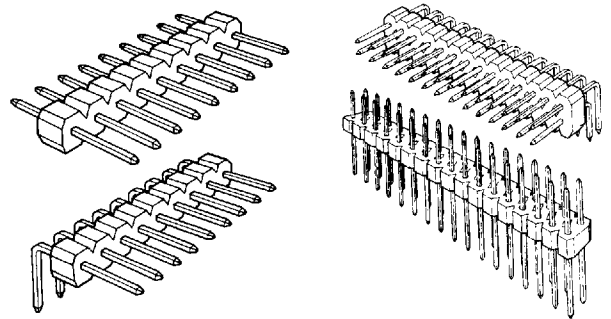
| Part Numbers | Dimensions                         |       |                                  |       |                           |       |
|--------------|------------------------------------|-------|----------------------------------|-------|---------------------------|-------|
|              | H-Mating<br>(Length Above Plastic) |       | G-Tail<br>(Length Below Plastic) |       | F<br>(Overall Pin Length) |       |
|              | mm                                 | in.   | mm                               | in.   | mm                        | in.   |
| 78537-XY YH  | 5.84                               | 0.230 | 2.41                             | 0.095 | 11.18                     | 0.440 |
| 68702-XY YH  | 5.84                               | 0.230 | 3.05                             | 0.120 | 11.81                     | 0.465 |
| 78536-XY YH  | 5.84                               | 0.230 | 3.81                             | 0.150 | 12.57                     | 0.495 |
| 95660-XY YH  | 6.35                               | 0.250 | 6.35                             | 0.250 | 15.62                     | 0.615 |
| 78535-XY YH  | 8.08                               | 0.318 | 3.05                             | 0.120 | 14.05                     | 0.553 |

Ordering data shown is for our standard product offering. for non-standard or custom products, contact your authorized Berg Electronics representative.

# Unshrouded Headers

2.54 x 2.54 mm (0.100 x 0.100 in.)  
Centerlines

**BergStik® II Headers**  
**BergCon® System**



A183396-0775

## Features

- 1-Row: 1 through 36 total positions.  
2-Row: 2 through 72 total positions.  
3-Row: 9 through 108 total positions.
- End-to-end and side-to-side stackable on 2.54 mm (0.100 in.) centerlines.
- Can be manually broken to the desired length.
- Drawn (not stamped) 0.64 mm (0.025 in.) square wire presents four surfaces of equal quality.
- Standoffs allow cleaning to eliminate soldering contaminants.
- Optional retention tail provides 2.224 N (0.5 lbf) minimum retention prior to soldering on 1.58 mm (0.062 in.) thick pc boards.
- High-temperature plastic for infra-red soldering operations.
- Available with gold, GXT™ (palladium nickel allow with gold flash) and tin-lead platings.

## Options

- Advanced ground.
- Retentive leg solder tails.
- Custom polarization available.

## Mating Data


Mates with 0.64 mm (0.025 in.) compatible receptacles on 2.54 mm (0.100 in.) centerlines.


| Berg Electronics Products          | Page                       |
|------------------------------------|----------------------------|
| ▪ Card Connectors . . . . .        | 13-122, 13-132, and 13-136 |
| ▪ PV™/Mini-latch Housing . . . . . | 13-4 and 13-16             |
| ▪ Quickie III™ . . . . .           | 23-4                       |
| ▪ Clincher™ . . . . .              | 20-2                       |
| ▪ Mini-jump™ . . . . .             | 13-44                      |

## Specifications

- MIL-G-45204
- MIL-P-55110
- MIL-P-81728
- QQ-W-343
- ASTM B-159

## Approvals and Certifications

 File no. E66906

 File no. LR46923

## Application Equipment

| Description                     | Page  |
|---------------------------------|-------|
| ▪ Cutting tool HT-320 . . . . . | 13-69 |

## Technical Data

### Materials

- Housing material . . . . . High temperature, Glass-filled PCT (UL 94 V-0)
  - ▶ Color . . . . . Black
  - ▶ Applicable soldering processes . . . . . Wave, Vapor-phase, IR reflow
- Pin . . . . . Phosphor-bronze

### Plating

- Underplate . . . . . 1.27 µm (50 µin.) nickel
- Finish . . . . . 0.38 µm (15 µin.) gold or 0.76 µm (30 µin.) gold or 1.27 µm (50 µin.) gold or 0.38 µm (15 µin.) GXT™ or 0.76 µm (30 µin.) GXT™
- Finish . . . . . 3.81 µm (150 µin.) tin-lead

### Electrical Performance

- Insulation resistance . . . . . 5000 MΩ min
- Withstanding voltage . . . . . 1500 V ac rms (sea level)

- Current rating . . . . . 3 amp continuous

### Mechanical Performance

- Retentive leg insertion force\* . . . . . >44.48 N (10 lbf) max\*
- Retentive leg connector retention . . . . . 2.22 N (0.5 lbf) min\*
- Contact retention (pin to housing) . . . . . 8.88 N (2 lbf)

### Operating Environment

- Temperature range . . . . . -65°C to +130°C

### Packaging

- Antistatic Bags
- Antistatic Tubes . . . . . available on selected part numbers

\*Per retentive pin-pair.

## Customer Support Materials

| Description                         | Order No.                 | Description               | Order No.    |
|-------------------------------------|---------------------------|---------------------------|--------------|
| Customer Product Drawings . . . . . | By Part Number            | Product Samples . . . . . | Upon Request |
| Product Specifications . . . . .    | BUS-12-050                | Test Data . . . . .       | Upon Request |
| Product Substitutions . . . . .     | Contact Technical Support |                           |              |

■ 9005411 0002556 668 ■