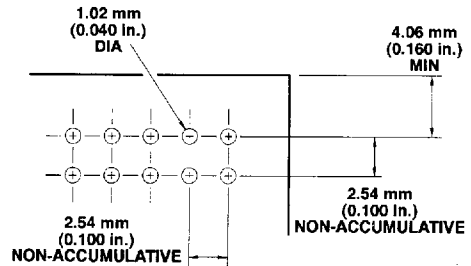
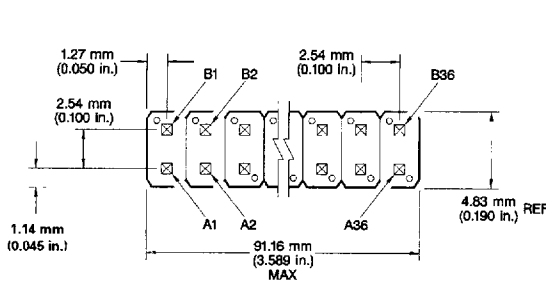
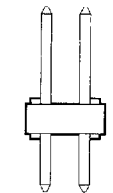
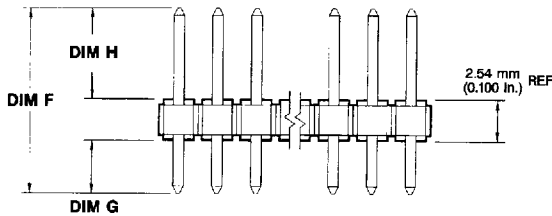


Unshrouded Headers
2.54 x 2.54 mm (0.100 x 0.100 in.)

Description
Straight 2-Row BergStik® II Headers



RECOMMENDED HOLE PATTERN

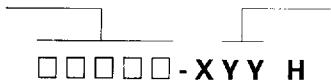


**STANDARD
SOLDER TAIL**

A183996-0198 A

Ordering Data

Base number specifies pin length and style



These digits specify total number of positions (2 through 72)

This digit specifies plating

High temperature plastic

Plating

| | | | |
|--|------|--|------|
| 0.76 µm (30 pin.) gold over 1.27 µm (50 pin.) nickel | -1YY | 3.81 µm (150 pin.) tin-lead | -4YY |
| 0.38 µm (15 pin.) gold over 1.27 µm (50 pin.) nickel | -2YY | 0.38 µm (15 pin.) GXT™ over 1.27 µm (50 pin.) nickel | -5YY |
| 1.27 µm (50 pin.) gold over 1.27 µm (50 pin.) nickel | -3YY | 0.76 µm (30 pin.) GXT™ over 1.27 µm (50 pin.) nickel | -6YY |

| Part Numbers | Dimensions | | | | | |
|--------------|------------------------------------|-------|----------------------------------|-------|---------------------------|-------|
| | H-Mating (Length Above Plastic) | | G-Tail (Length Below Plastic) | | F (Overall Pin Length) | |
| | mm | in. | mm | in. | mm | in. |
| 95105-XYXH | 3.66 | 0.144 | 3.20 | 0.126 | 9.40 | 0.370 |
| 95645-XYXH | 3.81 | 0.150 | 2.54 | 0.100 | 8.89 | 0.350 |
| 78269-XYXH | 4.83 | 0.190 | 2.41 | 0.095 | 9.78 | 0.385 |
| 79425-XYXH | 4.83 | 0.190 | 3.05 | 0.120 | 10.41 | 0.410 |
| 93217-XYXH | 5.08 | 0.200 | 2.41 | 0.095 | 10.03 | 0.395 |
| 69157-XYXH | 5.08 | 0.200 | 2.79 | 0.110 | 10.41 | 0.410 |
| 68783-XYXH | 5.84 | 0.230 | 1.14 | 0.045 | 9.53 | 0.375 |
| 67996-XYXH | 5.84 | 0.230 | 2.41 | 0.095 | 10.80 | 0.425 |
| 68692-XYXH | 5.84 | 0.230 | 2.54 | 0.100 | 10.92 | 0.430 |
| 68737-XYXH | 5.84 | 0.230 | 2.79 | 0.110 | 11.18 | 0.440 |
| 67997-XYXH | 5.84 | 0.230 | 3.05 | 0.120 | 11.43 | 0.450 |
| 68602-XYXH | 5.84 | 0.230 | 3.81 | 0.150 | 12.19 | 0.480 |
| 68739-XYXH | 5.84 | 0.230 | 3.96 | 0.156 | 12.34 | 0.486 |
| 68438-XYXH | 5.84 | 0.230 | 5.72 | 0.225 | 14.10 | 0.555 |
| 69133-XYXH | 5.84 | 0.230 | 7.24 | 0.285 | 15.62 | 0.615 |
| 68799-XYXH | 5.84 | 0.230 | 15.11 | 0.595 | 23.50 | 0.925 |
| 78286-XYXH | 6.10 | 0.240 | 4.06 | 0.160 | 12.70 | 0.500 |
| 86503-XYXH | 6.35 | 0.250 | 3.05 | 0.120 | 11.94 | 0.470 |
| 68491-XYXH | 6.48 | 0.255 | 3.05 | 0.120 | 12.07 | 0.475 |
| 78212-XYXH | 6.60 | 0.260 | 8.89 | 0.350 | 18.03 | 0.710 |
| 68481-XYXH | 7.24 | 0.285 | 2.41 | 0.095 | 12.19 | 0.480 |
| 68734-XYXH | 7.24 | 0.285 | 5.84 | 0.230 | 15.62 | 0.615 |
| 87203-XYXH | 7.49 | 0.295 | 3.81 | 0.150 | 13.84 | 0.545 |
| 78988-XYXH | 7.75 | 0.305 | 3.43 | 0.135 | 13.72 | 0.540 |

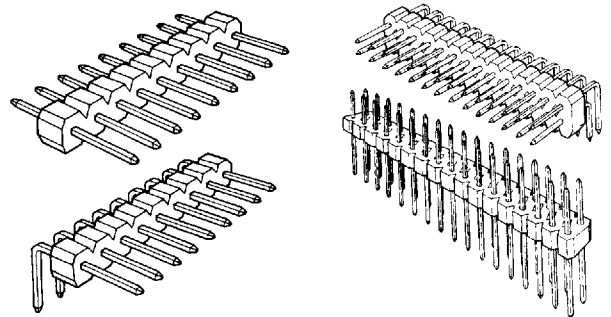
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Unshrouded Headers

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 | | |

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Ordering Data (Cont'd)

| Part Numbers | Dimensions | | | | | |
|--------------|------------------------------------|-------|----------------------------------|-------|---------------------------|-------|
| | H-Mating (Length Above Plastic) | | G-Tail (Length Below Plastic) | | F (Overall Pin Length) | |
| | mm | in. | mm | in. | mm | in. |
| 94010-XYHH | 7.77 | 0.306 | 8.89 | 0.350 | 19.20 | 0.756 |
| 78933-XYHH | 7.87 | 0.310 | 7.24 | 0.285 | 17.65 | 0.695 |
| 67998-XYHH | 8.08 | 0.318 | 2.72 | 0.107 | 13.34 | 0.525 |
| 68690-XYHH | 8.08 | 0.318 | 2.92 | 0.115 | 13.54 | 0.533 |
| 68691-XYHH | 8.08 | 0.318 | 3.05 | 0.120 | 13.67 | 0.538 |
| 67999-XYHH | 8.08 | 0.318 | 3.30 | 0.130 | 13.92 | 0.548 |
| 78233-XYHH | 8.08 | 0.318 | 3.81 | 0.150 | 14.43 | 0.568 |
| 93216-XYHH | 8.08 | 0.318 | 3.94 | 0.155 | 14.55 | 0.573 |
| 87894-XYHH | 8.08 | 0.318 | 4.32 | 0.170 | 14.94 | 0.588 |
| 68743-XYHH | 8.08 | 0.318 | 5.59 | 0.220 | 16.21 | 0.638 |
| 68779-XYHH | 8.08 | 0.318 | 8.08 | 0.318 | 18.69 | 0.736 |
| 68716-XYHH | 8.08 | 0.318 | 10.41 | 0.410 | 21.03 | 0.828 |
| 68749-XYHH | 8.08 | 0.318 | 10.67 | 0.420 | 21.29 | 0.838 |
| 68693-XYHH | 8.08 | 0.318 | 13.21 | 0.520 | 23.83 | 0.938 |
| 92417-XYHH | 8.13 | 0.320 | 2.79 | 0.110 | 13.46 | 0.530 |
| 86832-XYHH | 8.26 | 0.325 | 2.54 | 0.100 | 13.34 | 0.525 |
| 95652-XYHH | 8.38 | 0.330 | 1.78 | 0.070 | 12.70 | 0.500 |
| 93254-XYHH | 8.97 | 0.353 | 2.79 | 0.110 | 14.30 | 0.563 |
| 87869-XYHH | 9.14 | 0.360 | 5.84 | 0.230 | 17.53 | 0.690 |
| 95687-XYHH | 9.14 | 0.360 | 9.14 | 0.360 | 20.83 | 0.820 |
| 86837-XYHH | 9.65 | 0.380 | 3.05 | 0.120 | 15.24 | 0.600 |
| 89540-XYHH | 9.65 | 0.380 | 7.11 | 0.280 | 19.30 | 0.760 |
| 68738-XYHH | 10.16 | 0.400 | 2.92 | 0.115 | 15.62 | 0.615 |
| 68601-XYHH | 10.16 | 0.400 | 3.05 | 0.120 | 15.75 | 0.620 |
| 95665-XYHH | 10.16 | 0.400 | 8.51 | 0.335 | 21.21 | 0.835 |
| 68464-XYHH | 10.92 | 0.430 | 3.05 | 0.120 | 16.51 | 0.650 |
| 79821-XYHH | 10.92 | 0.430 | 5.08 | 0.200 | 18.54 | 0.730 |
| 87381-XYHH | 11.30 | 0.445 | 2.54 | 0.100 | 16.38 | 0.645 |
| 71217-XYHH | 11.43 | 0.450 | 11.43 | 0.450 | 25.40 | 1.000 |
| 87382-XYHH | 12.07 | 0.475 | 2.54 | 0.100 | 17.15 | 0.675 |
| 86827-XYHH | 12.19 | 0.480 | 3.05 | 0.120 | 17.78 | 0.700 |
| 79242-XYHH | 12.45 | 0.490 | 8.64 | 0.340 | 23.62 | 0.930 |
| 68439-XYHH | 12.70 | 0.500 | 3.05 | 0.120 | 18.29 | 0.720 |
| 71222-XYHH | 12.70 | 0.500 | 6.35 | 0.250 | 21.59 | 0.850 |
| 79271-XYHH | 12.70 | 0.500 | 12.70 | 0.500 | 27.94 | 1.100 |
| 68482-XYHH | 13.21 | 0.520 | 8.08 | 0.318 | 23.83 | 0.938 |
| 87903-XYHH | 13.36 | 0.526 | 8.56 | 0.337 | 24.46 | 0.963 |
| 88797-XYHH | 13.46 | 0.530 | 8.13 | 0.320 | 24.13 | 0.950 |
| 69132-XYHH | 13.72 | 0.540 | 3.05 | 0.120 | 19.30 | 0.760 |
| 68600-XYHH | 15.49 | 0.610 | 2.92 | 0.115 | 20.96 | 0.825 |
| 95727-XYHH | 15.62 | 0.615 | 2.79 | 0.110 | 20.96 | 0.825 |
| 86836-XYHH | 16.51 | 0.650 | 3.05 | 0.120 | 22.10 | 0.870 |
| 86834-XYHH | 16.51 | 0.650 | 14.86 | 0.585 | 33.91 | 1.335 |
| 87349-XYHH | 17.27 | 0.680 | 2.79 | 0.110 | 22.61 | 0.890 |
| 94532-XYHH | 17.78 | 0.700 | 11.43 | 0.450 | 31.75 | 1.250 |
| 86817-XYHH | 17.91 | 0.705 | 3.05 | 0.120 | 23.50 | 0.925 |
| 89446-XYHH | 18.03 | 0.710 | 3.05 | 0.120 | 23.62 | 0.930 |
| 87345-XYHH | 18.08 | 0.712 | 10.31 | 0.406 | 30.94 | 1.218 |
| 87900-XYHH | 18.29 | 0.720 | 3.05 | 0.120 | 23.88 | 0.940 |
| 87348-XYHH | 18.54 | 0.730 | 2.54 | 0.100 | 23.62 | 0.930 |
| 79243-XYHH | 18.80 | 0.740 | 9.91 | 0.390 | 31.24 | 1.230 |
| 87052-XYHH | 19.56 | 0.770 | 3.05 | 0.120 | 25.15 | 0.990 |
| 79268-XYHH | 20.32 | 0.800 | 3.05 | 0.120 | 25.91 | 1.020 |
| 87901-XYHH | 20.83 | 0.820 | 3.05 | 0.120 | 26.42 | 1.040 |
| 89542-XYHH | 21.34 | 0.840 | 3.18 | 0.125 | 27.05 | 1.065 |
| 95712-XYHH | 22.35 | 0.880 | 2.79 | 0.110 | 27.69 | 1.090 |
| 88886-XYHH | 23.62 | 0.930 | 7.01 | 0.276 | 33.17 | 1.306 |
| 87037-XYHH | 25.91 | 1.020 | 3.05 | 0.120 | 31.50 | 1.240 |
| 89639-XYHH | 26.47 | 1.042 | 3.00 | 0.118 | 32.00 | 1.260 |
| 87344-XYHH | 26.82 | 1.056 | 5.56 | 0.219 | 34.93 | 1.375 |

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

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