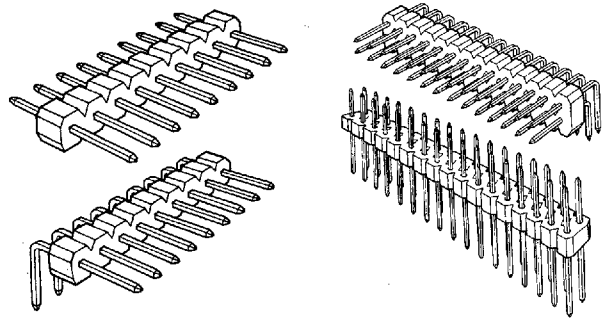


# Unshrouded Headers

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

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



A18396-0775

## 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 alloy 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 . . . . .	13-124, 13-134, and 13-138
▪ PV™/Mini-latch Housing . . . . .	13-4 and 13-16
▪ Quickie III™ . . . . .	23-4
▪ Duflex™ . . . . .	21-4
▪ 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.

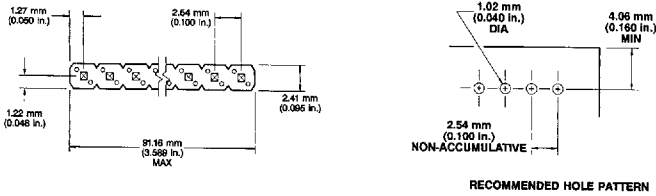
## Customer Support Materials

Description	Order No.
Customer Product Drawings . . . . .	By Part Number
Product Specifications . . . . .	BUS-12-050
Product Substitutions . . . . .	Contact Technical Support

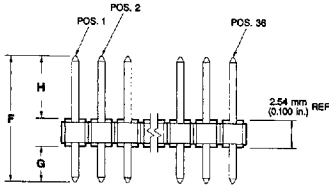
Description	Order No.
Product Samples . . . . .	Upon Request
Test Data . . . . .	Upon Request

## Description

### Straight 1-Row BergStik® II Headers



RECOMMENDED HOLE PATTERN



STANDARD SOLDER TAIL

A183295-01/7A

## Ordering Data

Base number specifies pin length and style

These digits specify total number of positions (1 through 36 available)

This digit specifies plating

High temperature plastic

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

-4YY  
-5YY  
-6YY

## Plating

### Dimensions

Part Numbers	H-Mating (Length Above Plastic)		G-Tail (Length Below Plastic)		F (Overall Pin Length)	
	mm	in.	mm	in.	mm	in.
	68797-XYHH	2.54	0.100	5.41	0.213	10.49
68659-XYHH	2.79	0.110	10.11	0.398	15.44	0.608
68796-XYHH	2.79	0.110	10.74	0.423	16.08	0.633
68657-XYHH	3.05	0.120	9.35	0.369	14.94	0.588
94611-XYHH	3.18	0.125	2.41	0.095	8.13	0.320
68033-XYHH	3.43	0.135	12.01	0.473	17.98	0.708
94063-XYHH	3.51	0.138	3.51	0.138	9.55	0.376
95104-XYHH	3.66	0.144	3.20	0.126	9.40	0.370
87827-XYHH	4.06	0.160	3.05	0.120	9.65	0.380
69751-XYHH	4.32	0.170	4.32	0.170	11.18	0.440
78998-XYHH	4.45	0.175	3.94	0.155	10.92	0.430
92020-XYHH	4.52	0.178	2.39	0.094	9.45	0.372
90719-XYHH	4.52	0.178	2.69	0.106	9.75	0.384
94094-XYHH	4.52	0.178	7.98	0.314	15.04	0.592
68705-XYHH	5.08	0.200	2.41	0.095	10.03	0.395
86506-XYHH	5.59	0.220	3.05	0.120	11.18	0.440
89232-XYHH	5.84	0.230	0.00	0.000	8.26	0.325
93992-XYHH	5.84	0.230	2.16	0.085	10.54	0.415
68000-XYHH	5.84	0.230	2.41	0.095	10.80	0.425
90726-XYHH	5.84	0.230	2.79	0.110	11.18	0.440
68001-XYHH	5.84	0.230	3.05	0.120	11.43	0.450
68002-XYHH	5.84	0.230	3.81	0.150	12.19	0.480
68031-XYHH	5.84	0.230	4.65	0.183	13.03	0.513
68003-XYHH	5.84	0.230	4.95	0.195	13.34	0.525
68032-XYHH	5.84	0.230	5.41	0.213	13.79	0.543
68730-XYHH	5.84	0.230	5.72	0.225	14.10	0.555
68630-XYHH	5.84	0.230	6.93	0.273	15.32	0.603
68717-XYHH	5.84	0.230	7.24	0.285	15.62	0.615
78240-XYHH	5.84	0.230	8.46	0.333	16.84	0.663
68479-XYHH	5.84	0.230	9.86	0.388	18.24	0.718
68418-XYHH	5.84	0.230	10.16	0.400	18.54	0.730
68632-XYHH	5.84	0.230	10.49	0.413	18.87	0.743
68443-XYHH	5.84	0.230	10.80	0.425	19.18	0.755
68416-XYHH	5.84	0.230	12.27	0.483	20.65	0.813
68642-XYHH	5.84	0.230	14.81	0.583	23.19	0.913
68465-XYHH	5.84	0.230	15.11	0.595	23.50	0.925

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

Ordering Data (continued)

Part Numbers	Dimensions					
	H-Mating (Length Above Plastic)		G-Tail (Length Below Plastic)		F (Overall Pin Length)	
	mm	in.	mm	in.	mm	in.
68634-XYHH	5.84	0.230	17.35	0.683	25.73	1.013
68490-XYHH	5.84	0.230	17.65	0.695	26.04	1.025
68489-XYHH	5.84	0.230	19.43	0.765	27.81	1.095
93167-XYHH	5.97	0.235	1.50	0.059	10.01	0.394
68771-XYHH	6.86	0.270	2.54	0.100	11.94	0.470
68762-XYHH	6.99	0.275	5.41	0.213	14.94	0.588
68654-XYHH	7.11	0.280	17.02	0.670	26.67	1.050
69173-XYHH	7.49	0.295	3.43	0.135	13.46	0.530
90547-XYHH	7.95	0.313	2.41	0.095	12.90	0.508
68004-XYHH	8.08	0.318	2.72	0.107	13.34	0.525
78511-XYHH	8.08	0.318	3.05	0.120	13.67	0.538
68457-XYHH	8.08	0.318	3.30	0.130	13.92	0.548
68024-XYHH	8.08	0.318	3.81	0.150	14.43	0.568
68629-XYHH	8.08	0.318	5.16	0.203	15.77	0.621
68422-XYHH	8.08	0.318	5.41	0.213	16.03	0.631
68633-XYHH	8.08	0.318	5.72	0.225	16.33	0.643
68781-XYHH	8.08	0.318	6.93	0.273	17.55	0.691
68655-XYHH	8.08	0.318	7.37	0.290	17.98	0.708
69188-XYHH	8.08	0.318	8.46	0.333	19.08	0.751
68483-XYHH	8.08	0.318	10.59	0.417	21.21	0.835
94544-XYHH	8.38	0.330	3.30	0.130	13.97	0.550
68603-XYHH	8.51	0.335	3.05	0.120	14.10	0.555
68795-XYHH	8.59	0.338	1.57	0.062	12.70	0.500
68731-XYHH	8.64	0.340	11.18	0.440	22.35	0.880
88005-XYHH	8.66	0.341	2.41	0.095	13.61	0.536
69148-XYHH	8.89	0.350	0.00	0.000	11.43	0.450
68760-XYHH	8.89	0.350	8.97	0.353	20.40	0.803
92418-XYHH	8.99	0.354	3.00	0.118	14.53	0.572
68604-XYHH	9.65	0.380	3.05	0.120	15.24	0.600
68735-XYHH	10.06	0.396	13.21	0.520	25.81	1.016
95017-XYHH	10.16	0.400	1.52	0.060	14.22	0.560
93287-XYHH	10.16	0.400	2.16	0.085	14.86	0.585
68415-XYHH	10.16	0.400	2.92	0.115	15.62	0.615
79849-XYHH	10.16	0.400	3.05	0.120	15.75	0.620
95648-XYHH	10.16	0.400	3.94	0.155	16.64	0.655
68631-XYHH	10.16	0.400	5.16	0.203	17.86	0.703
68472-XYHH	10.16	0.400	10.49	0.413	23.19	0.913
68656-XYHH	10.16	0.400	15.57	0.613	28.27	1.113
68497-XYHH	10.85	0.427	2.16	0.085	15.54	0.612
90522-XYHH	11.00	0.433	3.43	0.135	16.97	0.668
71417-XYHH	11.40	0.449	2.92	0.115	16.87	0.664
78287-XYHH	11.63	0.458	3.05	0.120	17.22	0.678
68686-XYHH	11.63	0.458	11.63	0.458	25.81	1.016
79428-XYHH	12.07	0.475	3.05	0.120	17.65	0.695
68487-XYHH	12.57	0.495	2.79	0.110	17.91	0.705
69152-XYHH	12.70	0.500	3.05	0.120	18.29	0.720
95103-XYHH	13.49	0.531	11.00	0.433	27.03	1.064
68755-XYHH	13.54	0.533	13.54	0.533	29.62	1.166
68653-XYHH	13.72	0.540	2.41	0.095	18.67	0.735
68658-XYHH	14.99	0.590	3.30	0.130	20.83	0.820
68689-XYHH	15.24	0.600	5.41	0.213	23.19	0.913
68456-XYHH	15.49	0.610	2.92	0.115	20.96	0.825
78290-XYHH	16.51	0.650	12.70	0.500	31.75	1.250
87204-XYHH	17.15	0.675	3.05	0.120	22.73	0.895
68466-XYHH	17.70	0.697	3.25	0.128	23.50	0.925
86793-XYHH	17.78	0.700	2.54	0.100	22.86	0.900
88706-XYHH	17.78	0.700	2.54	0.100	22.86	0.900
68652-XYHH	17.78	0.700	17.02	0.670	37.34	1.470
93944-XYHH	18.06	0.711	3.30	0.130	23.90	0.941
87241-XYHH	19.81	0.780	3.05	0.120	25.40	1.000
86899-XYHH	20.32	0.800	3.05	0.120	25.91	1.020
87916-XYHH	21.08	0.830	3.25	0.128	26.87	1.058
91276-XYHH	22.86	0.900	5.72	0.225	31.12	1.225
95655-XYHH	24.61	0.969	2.41	0.095	29.57	1.164
87195-XYHH	26.49	1.043	2.41	0.095	31.45	1.238

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