

search:

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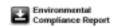
ft Home

68021-116HLF

68021-116HLF 68021-116HLF - BergStik®: Unshrouded Header, Through Hole, Double Row, 16 Positions, 2.54 mm Pitch, Right Angle, 5.84 mm (0.23 in.) Mating, 3.05 mm (0.12 in.) Tail



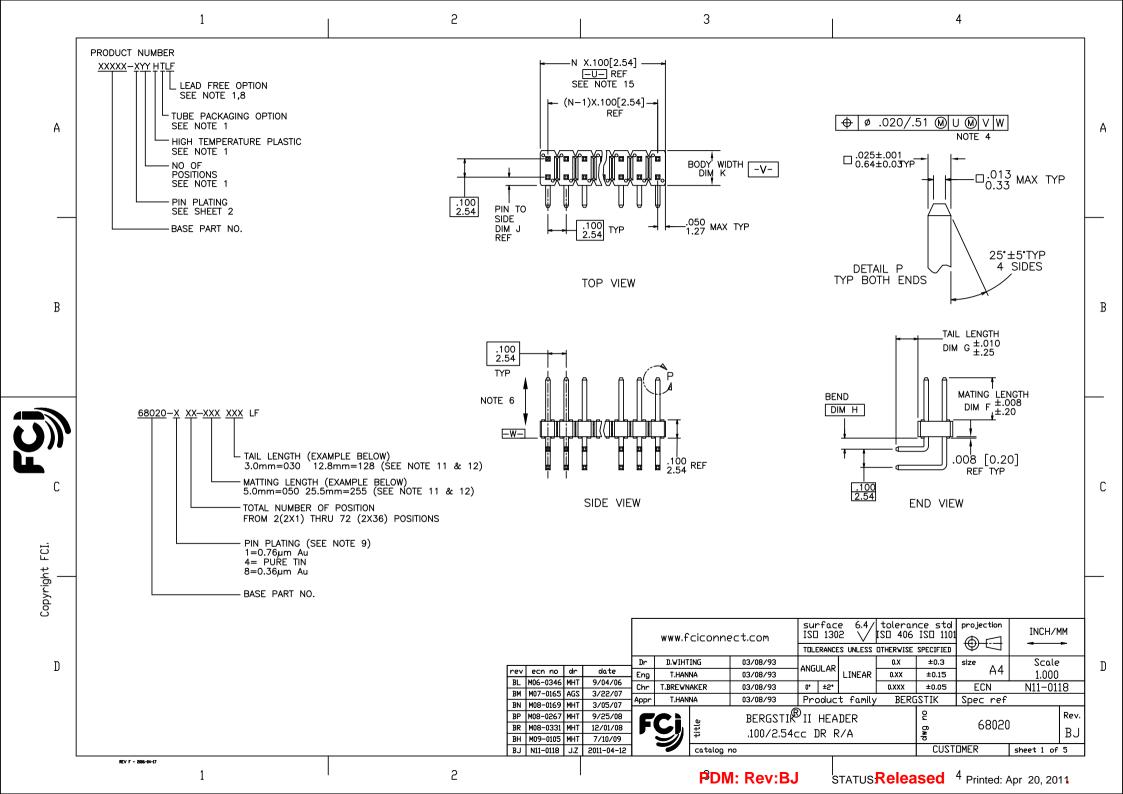




Specifications

Download document

| General Dimensional Electrical Mechanical Mounting Phy | ysical Approvals / Certifications Other Features |
|--|--|
| General | |
| Number of contacts (per row) | 8 |
| Number of contacts (Total) | 16 |
| Number of rows | 2 |
| Orientation | Right Angle |
| Packaging | Bulk Packaging |
| Attachment type (Board) | Through Hole |
| Series Number | 68021 |
| Dimensional | |
| Length (Mating pin) | 5.84 mm (0.23 in.) |
| Length (Tail) | 3.05 mm (0.12 in.) |
| Electrical Current rating | 3 amp Continuous |
| Resistance (Insulation) | 5000 M-ohms |
| · · · · · | 1500V AC rms |
| Voltage rating Mechanical | 1500V AC IIIIS |
| Retention force | 8.88N (2 lbf) |
| Mounting | |
| Retention feature (Board) | No |
| | Vapor-phase |
| Solder process | IR Reflow Soldering Processes |
| Physical Phy | Compatible with Wave |
| Color (Housing) | Black |
| Material (Contact) | Phospor Bronze |
| Material (Housing) | High Temperature Black Thermoplastic |
| Plating (Contact area) | 0.76 μm (30 μin.) Gold or GXT |
| Plating (Tail) | 0.76 μm (30 μin.) Gold or GXT, or Tin |
| Underplating (Contact) | 1.27 µm (50 µin.) Nickel |
| Flammability rating | UL 94 V-0 |
| Temperature (Range) | -65°C to +125°C |
| Approvals / Certifications | |
| UL File Number | E66906 |
| CSA File Number | LR46923 |
| Approvals / Certifications | UL and CSA Approved |
| Other Features | 1 |
| Comments | Sample Kit 950501-016 |
| Literature | 950559-001 |



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30u"/0.76u MIN (SEE NOTE 9) OVER 50u"/1.27u MIN Ni

XXXXX-0YY NOTES

(1.) PART NUMBER OPTIONS:

PIN PLATING CODES (SEE ABOVE)

HIGH TEMP. MATERIAL:

PART NUMBERS WITH AND WITHOUT "H" WILL BE SUPPLIED WITH HIGH TEMPERATURE PLASTIC

NUMBER OF POSITION:

EVEN NUMBER OF POSITIONS FROM 2 (2X1) THRU 72 (2X36).

PACKAGING:

PACKAGED IN POLY BAGS.

EIGHT DIGIT PART NUMBERS FOLLOWED BY A "T" ARE PACKAGED IN TUBES. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

LEAD FREE:

ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION, NOT AVAILABLE FOR -5YY,-5YYH,-6YY & -6YYH.

2. BODY MATERIAL:

MANUFACTURER'S OPTION OF NYLON, PCT GLASS FIBER REINFORCED, OR MINERAL FILLED LCP FLAME RETARDENT PER UL-94V-0. COLOR: BLACK.

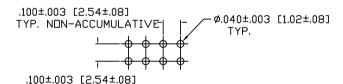
PART NUMBERS WITH AND WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

- (3.) PIN MATERIAL: PHOS-BRONZE.
- (4.) MEASURED WITH PART IN RESTRAINED CONDITION.
- 5. TWO SIDES OF PIN TIPS NOT PLATED. TYPICAL BOTH ENDS.
- (6.) 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.
- 7. MILITARY BERGSTIK HEADER P/N XXXXX-XYY-MIL NOT AVAILABLE.

- (8.) THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- (9.) PLATING OPTIONS:
 PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL,
 OPTIONALLY (78~295u"/2~7.5u) TIN ON TAIL.
- 10)"THIS PRODUCT HAS 100%%% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."
- 11) THE OAL DON'T EXCEED 31mm

 OAL= MATTING DIM + TAIL DIM +4.0mm<=31mm "WHERE THE SUM OF TAIL LEGTH DON'T EXCEED 27mm" TAIL TAIL LENGTH MIN 2.00mm TAIL LENGTH MAX 10.4mm

 MATTING LENGTH MIN 1.5mm MATTING LENGTH MAX 25.4mm
- 12.) INCREMENTS BY 0.1mm IN LENGTH ONLY
- 13. FOR ESPECIAL PACKAGING REQUEST PLEASE CONTACT PRODUCT MANAGER FOR AVAILABILITY
- 14. BEND DIMENSION AT 1.5mm ONLY
- (5) TO DETERMINE DIMENSIONS: N=NUMBER OF POSITION PER ROW EXAMPLE: 10 POS. N X .100/2.54



RECOMMENDED HOLE PATTERN

| www.fciconnect.com | | | | | `fac 130 | iz V | ISO 406 | iso std ISO 1101 | projection | INCH/M | IM | |
|--------------------|-----------|--------------|-------------------------|---------|---------------|----------|-----------|---------------------|------------|------------|----|--|
| | | | | TOLE | RANCE | S UNLESS | OTHERWISE | SPECIFIED | 7 | — | | |
| Dr | D.WIH | TING | 03/08/93 | ANGULAR | | | 0.X | ±0.3 | size | Scale | . | |
| Eng | T.HAI | NNA 03/08/93 | | ANGULAR | | LINEAR | 0.XX | ±0.15 | A4 | 1.000 | | |
| Chr | T.BREW | NAKER | 03/08/93 | 0° ±2° | | | 0.XXX | ±0.05 | ECN | N11-0118 | | |
| Appr | T.HAI | NNA | 03/08/93 | Pro | duc | t family | BERG | STIK | Spec ref | , | | |
| | ~: | a | BERGSTIK [®] I | 5 | 0000 | <u> </u> | Rev. | | | | | |
| | | title | .100/2.54cc | DR | R/A | 4 | | Q w Q | 6802 | J | BJ | |
| | | catalog r | no | | | | | CUS | TOMER | sheet 2 of | 5 | |

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PDM: Rev:BJ

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|---------------|--------------------|---------|--------|---------|--------|---------|--------|---------|--------|----------|--|---|------------------------|------------------------------------|---|
| | PRODUCT NUMBER | MATING | LENGTH | TAIL | LENGTH | BEND | DIM. | PIN T | □ SIDE | BODY | WIDTH | ' | | | |
| | | DIM F | DIM F | DIM G | DIM G | DIM H | | DIM J | DIM J | DIM K | DIM K | PACKAGING | LF | | |
| | | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | | OPTION | | |
| | 68020-XYY | 0.230 | 5.84 | 0.095 | 2.41 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | NOTE 1,8 | | |
| ^ | 68021-XYY | 0.230 | 5.84 | 0.120 | 3.05 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | , |
| Α | | 0.318 | 8.08 | 0.110 | 2.79 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | A |
| | | 0.230 | 5.84 | 0.195 | 4.95 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | | 0.230 | 5.84 | 0.095 | 2.41 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 68452-XYY | 0.380 | 9.65 | 0.110 | 2.79 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 68459-XYY | 0.318 | 8.08 | 0.150 | 3.81 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS/TUBES | | | |
| | 68462-XYY | 0.400 | 10.16 | 0.120 | 3.05 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68463-XYY | 0.230 | 5.84 | 0.110 | 2.79 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 68480-XYY | 0.318 | 8.08 | 0.110 | 2.79 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68492-XYY | 0.230 | 5.84 | 0.150 | 3.81 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| ъ | 68493-XYY | | | | UNAV | AIL | ABLE | | | | | | | | |
| В | 68695-XYY | 0.230 | 5.84 | 0.090 | 2.29 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | В |
| | 68696-XYY | 0.318 | 8.08 | 0.125 | 3.18 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68697-XYY | 0.230 | 5.84 | 0.125 | 3.18 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68715-XYY | 0.138 | 3.51 | 0.138 | 3.51 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68728-XYY | | | | UNAV | AIL | ABLE | + | | | | | | | |
| | 68740-XYY | 0.345 | 8.76 | 0.110 | 2.79 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 68759-XYY | 0.275 | 6.99 | 0.120 | 3.05 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 68780-XYY | 0.230 | 5.84 | 0.039 | 0.99 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 69147-XYY | 0.540 | 13.72 | 0.260 | 6.60 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 69186-XYY | | | | UNAV | AIL | ABLE | | | | | | | | |
| С | 72240-XYYH | 0.550 | 13.97 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | C |
| | 72261-XYYH | 0.100 | 2.54 | 0.100 | 2.54 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | | 0.550 | 13.97 | 0.260 | 6.60 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| FCI. | 72410-XYYH | 0.120 | 3.05 | 0.350 | 8.89 | 0.120 | 3.05 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | + | | |
| | 74430-XYYH | 0.000 | 0.00 | 0.233 | 5.92 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | NOTE 1,8 | | |
| Copyright | | | | | | | | | | | | | | | |
| opyr | | | | | | | | | | | | | | | |
| <u>റ്</u> | | | | | | | | | | | | surface | / tolerance s | td projection | 4 |
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| | | | | | | | | | | 2 2 | THE PART OF THE PA | | S OTHERWISE SPECIF | | - |
| D | | | | | | | | | | | WIHTING THANNA | 03/08/93 ANGULAR LINEA | 0.X ±0. R 0.XX ±0.1 | ─ | D |
| | | | | | | | | | | Chr T.BR | REWNAKER | 03/08/93 0° ±2° | 0.XXX ±0.0 | 5 ECN N11-0118 | |
| | | | | | | | | | | Appr T | THANNA | 03/08/93 Product fam | | Spec ref | ┨ |
| | | | | | | | | | | FCi |] ∌ | BERGSTIK [®] II HEADER .100/2.54cc DR R/A | ق 5 | 68020 Rev. | 1 |
| | | | | | | | | | | `∌ | 7 F | | Ø * 0 | CUSTOMER sheet 3 of 5 | 4 |
| | REV F - 2006-04-17 | | | | | | | | | | catalog n | | | CUSTOMER sheet 3 of 5 | J |
| | | 1 | | I | | 2 |) | | | | В́DМ | : Rev:BJ STATU | sReleased | ⁴ Printed: Apr 20, 2011 | |

PDM: Rev:BJ STATUS: Released 4 Printed: Apr 20, 2011

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|---------------|--------------------|---------|--------|---------|--------|---------|----------|---------|--------|---------|--------------------|---------------------------------|---|---|------------|
| | PRODUCT NUMBER | MATING | LENGTH | | LENGTH | BEND | DIM. | PIN T | □ SIDE | BODY | WIDTH | | | | |
| | | DIM F | DIM F | DIM G | DIM G | DIM H | DIM H | DIM J | DIM J | DIM K | DIM K | PACKAGING | LF | | |
| | | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | | OPTION | | |
| | 78576-XYY | 0.120 | 3.05 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | NOTE 1,8 | | |
| | 78923-XYY | 0.240 | 6.10 | 0.095 | 2.41 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | , |
| Α | 78951-XYY | 0.500 | 12.70 | 0.120 | 3.05 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | A |
| | 79200-XYY | 0.155 | 3.94 | 0.280 | 7.11 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79201-XYY | 0.225 | 5.72 | 0.280 | 7.11 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79202-XYY | 0.245 | 6.22 | 0.280 | 7.11 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79203-XYY | 0.315 | 8.00 | 0.280 | 7.11 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79204-XYY | 0.177 | 4.50 | 0.410 | 10.41 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79205-XYY | 0.25 | 6.35 | 0.410 | 10.41 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79206-XYY | 0.315 | 8.00 | 0.410 | 10.41 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 79248-XYY | | | | UNAV | AIL | ABLE | 1 | | | | | | | |
| _ | 79257-XYY | 0.230 | 5.84 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS/TUBES | | | _ |
| В | 79258-XYY | 0.318 | 8.08 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS/TUBES | | | В |
| | 79807-XYY | | | | UNAV | AIL | ABLE | ‡ | | | | | | | |
| | 79841-XYY | 0.060 | 1.52 | 0.230 | 5.84 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 86385-XYY | 0.260 | 6.6 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 86840-XYY | 0.318 | 8.08 | 0.230 | 5.84 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| _ | 86867-XYY | | | | UNAV | AIL | ABLE | ‡ | | | | | | | |
| | 88822-XYY | 0.318 | 8.08 | 0.080 | 2.03 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 89292-XYY | 0.120 | 3.05 | 0.300 | 7.62 | 0.120 | 3.05 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| | 90234-XYY | 0.130 | 3.30 | 0.195 | 4.95 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | |
| _ | 92634-XYY | 0.318 | 8.08 | 0.318 | 8.08 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | _ |
| С | 93162-XYY | 0.230 | 5.84 | 0.400 | 10.16 | 0.150 | 3.81 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS | | | C |
| | 93932-XYY | 0.200 | 5.08 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| | 93939-XYY | 0.160 | 4.06 | 0.120 | 3.05 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | | | |
| FCI. | 94687-XYYH | 0.430 | 10.92 | 0.230 | 5.84 | 0.060 | 1.52 | 0.045 | 1.14 | 0.190 | 4.83 | POLY BAGS |] + | | |
| | 94688-XYYH | 0.385 | 9.78 | 0.280 | 7.11 | 0.060 | 1.52 | 0.070 | 1.78 | 0.240 | 6.10 | POLY BAGS | NOTE 1,8 | | |
| Copyright | | | | | | | | • | | | | | | | |
| Сор | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 0.1 | surface ISO 1302 V | / tolerance st ISO 406 ISO 1: | | |
| | | | | | | | | | | www | w.fciconne | C VICOIT | 130 406 130 1. SS OTHERWISE SPECIFIE | <u> </u> | |
| D | | | | | | | | | | | WIHTING | 03/08/93 ANGULAR | 0.X ±0.3 | size A1 Scale | \dashv D |
| _ | | | | | | | | | | | :HANNA REWNAKER | 03/08/93 0° ±2° LINEA | R 0.XX ±0.15 | 1,000 | ┨ ¯ |
| | | | | | | | | | | | .HANNA | 03/08/93 Product fam | | Spec ref | 1 |
| | | | | | | | | | | EC: | o o | BERGSTIK [®] II HEADER | 2 | Rev | / . |
| | | | | | | | | | | |) ₹ | .100/2.54cc DR R/A | 6 _₩ b | 68020 BJ | J |
| | | | | | | | | | | 7 | catalog n | 0 | С | USTOMER sheet 4 of 5 | |
| | REV F - 2006-04-17 | 1 | | | | â |) | | | | BDM | : Rev:ВЈ | - Polessed | ⁴ Printed: Apr 20, 2011 | |
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