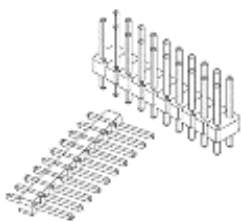# 67996-272HLF

67996-272HLF - BergStik ®

Unshrouded header, Through Hole, Double row, 72 Positions, 2.54 mm Pitch, Vertical, 5.84 mm (0.23 in.) Mating, 2.41 mm (0.095 in.) Tail

ACTIVE

Customer Drawing

RoHS compatible

Electronics division

✉ Email Datasheet   🖨 Print Datasheet

FCI Brings You More
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- ✉ Sample request
- € Price request
- 📊 Check distributor stock

Direct Links …▸
- Cross Reference ✖
- RoHS/LF P/N search 🌿
- Document & Drawing search
- Application tooling

Services …▸
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Literature …▸
- Brochures & catalogs
- Product documentation
- Technical library

Mating Half

87606-336LF 72 Position PCB Mounted Receptacle, Through Mount, Top Entry, Double Row

76342-336LF 72 Position PCB Mounted Receptacle Through Mount, Top Entry, Double Row

71609-336LF 72 Position Horizontal Card Connector, Surface Mount, Double row

Download document

Technical Resources
- ▸ > 3D IGES
- ▸ > RoHS qualification documents
- ▸ > Product Specification

Literature
- ▸ > Basics+ Product Focus
- ▸ > Basics+ Brochure
- ▸ > Connectors for Medical Devices Brochure
- ▸ > Products for MicroTCA and AdvancedMC modules Brochure
- ▸ > Connector Overview Brochure
- ▸ > Bergstik PIP Brochure

Application Tooling
- ▸ > Asia Pacific Application Tooling
- ▸ > Americas Application Tooling
- ▸ > Europe Application Tooling

Specifications

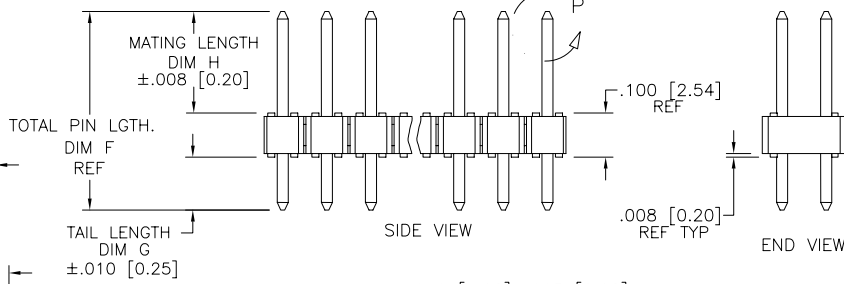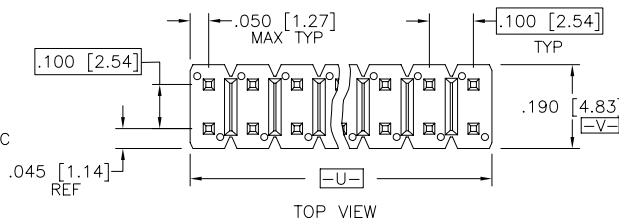| **General**	
Number of contacts (per row)	36
Number of contacts (Total)	72
Number of rows	2
Orientation	Vertical
Packaging	Bulk Packaging
Attachment type (Board)	Through Hole
Dimensional	
Length (Overall pin)	10.8 mm (0.425 in.)
Length (Tail)	2.41 mm (0.095 in.)
Mating length	5.84 mm (0.23 in.)
Electrical	
Current rating	3 amp Continuous
Resistance (Insulation)	5000 M ohms
Voltage rating	1500V AC rms
Mechanical	
Retention force	8.88N (2 lbf)
Mounting	
Retention feature (Board)	No
Solder process	Vapor-phase IR reflow soldering processes Compatible with Wave
Physical	
Color (Housing)	Black
Material (Contact)	Phospor Bronze
Material (Housing)	High Temperature Black Thermoplastic
Plating (Contact area)	0.38 µm (15 µin.) Gold or GXT
Plating (Tail)	0.38 µm (15 µin.) Gold or GXT
Underplating (Contact)	1.27 µm (50 µin.) Nickel
Flammability rating	UL 94 V-0
Temperature (Range)	-65°C to +125°C
Approvals / Certifications	
Approvals / Certifications	UL and CSA Approved
Other Features	
Comments	Sample kit 950501-016
Literature	950559-001

PRODUCT NUMBER

XXXXX-XYY H PLF

LEAD FREE OPTION
SEE NOTE 1,13

SPECIAL OPTIONS
SEE NOTE 1 OR 10

HIGH TEMPERATURE PLASTIC
SEE NOTE 1

NO OF
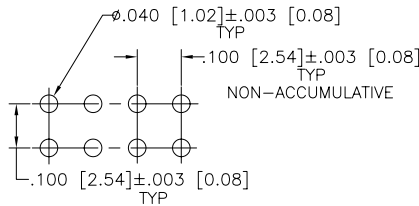POSITIONS
SEE NOTE 1

PIN PLATING
SEE SHEET 2

BASE PART NO.

.050 [1.27]
MAX TYP

.100 [2.54]

.100 [2.54]
TYP

.190 [4.83]
-V-

.045 [1.14]
REF

-U-

TOP VIEW

□.013 [0.33]
MAX TYP

⊕ ⌀.020/0.51 Ⓜ U Ⓜ V Ⓢ
NOTE 4

□.025 [0.64]±.001 [0.03]
TYP

MATING LENGTH
DIM H
±.008 [0.20]

TOTAL PIN LGTH.
DIM F
REF

TAIL LENGTH
DIM G
±.010 [0.25]

P

.100 [2.54]
REF

NOTE 6

.008 [0.20]
REF TYP

SIDE VIEW

END VIEW

⌀.040 [1.02]±.003 [0.08]
TYP

.100 [2.54]±.003 [0.08]
TYP
NON-ACCUMULATIVE

25°±5°
4 SIDES

.100 [2.54]±.003 [0.08]
TYP

DETAIL P
SCALE 5:1
TYP BOTH ENDS

RECOMMENDED HOLE PATTERN

mat'l. code SEE NOTES 2 & 3		surface ISO 1302	tolerance ISO 406 ISO 1101	projection ⊕◁	product family BERGSTIK	
ltr	ecn no	dr	date	tolerances unless otherwise specified	title	
CS	V21800	TAB	12/19/03	angles	linear	.XX±.01/0.3	BERGSTIK®II HDR. D/R .100/2.54cc STRAIGHT
CT	V03-0257	DAI	03/05/03			.XXX±.005/0.13	INCH/MM
CU	M04-0234	MHT	12/29/04	0°±2°		.XXXX±.0020/0.051	scale 1:1
CV	M05-0072	MHT	5/03/05	dr	T.BREWBAKER	12/21/94	dwg no
CW	M06-0268	MHT	7/17/06	engr	T.HANNA	12/21/94	67996
CX	M06-0346	MHT	9/04/06	chr	J.MURPHY	12/21/94	sheet 1 of 8 size A3
CY	M06-0468	MHT	11/27/06	appd	T.HANNA	12/21/94	type Product Customer Drawing

sheet index	revision sheet	CY 1	CY 2	CY 3	CY 4	CY 5	CY 6	CY 7	CY 8

form: A3

PIN PLATING CODES:

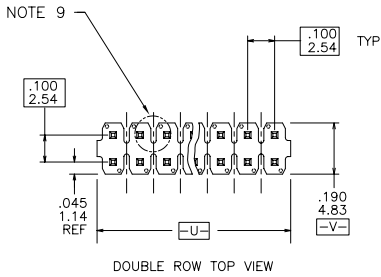|	
XXXXX-1YY	30u"/0.76u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni
XXXXX-2YY	15u"/0.38u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni
XXXXX-3YY	50u"/1.27u MIN Au OVER 50u"/1.27u MIN Ni
XXXXX-4YY XXXXX-4YYHLF	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 15)
XXXXX-5YY	15u"/0.38u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni
XXXXX-6YY	30u"/0.76u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni
XXXXX-7YY	30u"/0.76u MIN Au OVER 50u"/1.27u MIN Ni
XXXXX-8YY	15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni
XXXXX-9YY	15u"/0.38u MIN GXT OVER 50u"/1.27u MIN Ni
XXXXX-0YY	30u"/0.76u MIN GXT OVER 50u"/1.27u MIN Ni

NOTES

1. PART NUMBER OPTIONS:

PIN PLATING CODES (SEE ABOVE)

HIGH TEMPERATURE MATERIAL:

FOR HIGH-TEMPERATURE APPLICATIONS, SPECIFY AN "H" AT
THE END OF THE PART NUMBER, AND PCT WILL BE SUPPLIED.

NUMBER OF POSITIONS :

EVEN NUMBER OF POSITIONS FROM 2 (2X1) THROUGH 72 (2X36).
-X00H INDICATES BERGSTRIP PRODUCT. SEE PAGE 3
FOR SPECIAL GEOMETRY OF THIS CONTINUOUS STRIP PRODUCT.
AUTOMATED REELS WILL CONTAIN 45,000 PINS.
SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

PACKAGING:

PACKAGED IN POLY BAGS.
EIGHT DIGIT PART NUMBERS FOLLOWED BY A "T" ARE PACKAGED
IN TUBES. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.
EIGHT DIGIT PART NUMBERS FOLLOWED BY A "G" ARE PACKAGED
IN GPAX FOR IBM ONLY. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

PART NUMBERS FOLLOWED BY A "C" ARE PACKAGED IN TUBES
WITH A PICKUP CAP APPLIED.

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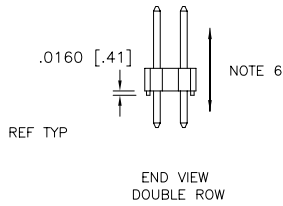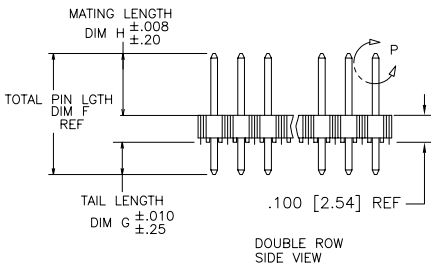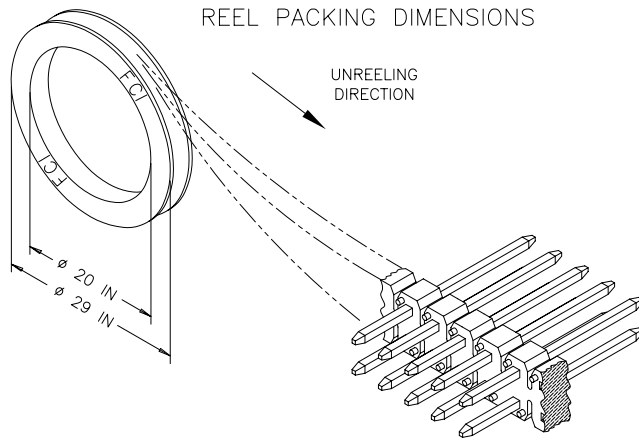OPTION, NOT AVAILABLE FOR -5YY,-5YYH, -6YY & -6YYH

2. BODY MATERIAL:

BODY MATERIAL : MANUFACTURER'S OPTION OF NYLON OR PCT,
GLASS FIBER REINFORCED, FLAME RETARDENT PER UL-94V-0.
COLOR: BLACK
BERGSTRIP PRODUCED WITH HIGH TEMPERATURE LCP
THERMOPLASTIC, FLAME RETARDENT PER UL-94V-0.
COLOR: BLACK
PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE
TO 260° C PEAK TEMPERATURE FOR 20 SECONDS IN
WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.
PART NUMBERS WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE
TO 260° C PEAK TEMPERATURE FOR WAVE 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. ±.010/0.25 TOL APPLIES TO ALL "G" TAILS EXCEPT
INDICATED PARTS ON TABLE WHERE +.010/0.25 -.000/0.00
APPLIES.

9. NOTCH CONFIGURATION WILL VARY PER VENDOR'S DISCRETION.

10. BERGSTRIP PART NUMBERS FOLLOWED BY
BY A "B" ARE BULK PRICED.

11. TAIL LENGTH (DIM. G) TO BE ±.008/.0.20.

12. POSITIONS PER ROW 37 TO 50 CAN BE PRODUCED,
BUT FLATNESS AND CURVATURE MAY NOT BE
HELD AS CLOSE AS 36 POSITIONS.

13. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

14. PLATING OPTIONS:
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

15. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS."

mat'l. code SEE NOTES 2 & 3		surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified		title
CY				angles	linear	.XX±.01/0.3	INCH/MM	BERGSTIK®II HDR. D/R
						.XXX±.005/0.13		.100/2.54cc STRAIGHT
				0°±2°		.XXXX±.0020/0.051	scale 1:1	
				dr	T.BREWBAKER	12/21/94		dwg no	sheet2 of 8	size
				engr	T.HANNA	12/21/94		67996		A3
				chr	J.MURPHY	12/21/94				
				appd	T.HANNA	12/21/94		type	Product Customer Drawing	
sheet index	revision sheet									

form: A3

BERGSTRIP^{TM} HEADER

REEL PACKING DIMENSIONS

UNREELING
DIRECTION

NOTE 9

.100
2.54   TYP

.100
2.54

ø 20 IN
ø 29 IN

.045
1.14
REF

.190
4.83
-V-

-U-

DOUBLE ROW TOP VIEW

MATING LENGTH
DIM H ±.008
±.20

TOTAL PIN LGTH
DIM F
REF

P

.0160 [.41]

NOTE 6

TAIL LENGTH
DIM G ±.010
±.25

.100 [2.54] REF

REF TYP

END VIEW
DOUBLE ROW

DOUBLE ROW
SIDE VIEW

mat'l. code SEE NOTES 2 & 3				surface ISO 1302		tolerance ISO 406 ISO 1101	projection	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified				title
CY				angles	linear	.XX±.01/0.3	INCH/MM	BERGSTIK®II HDR. D/R
						.XXX±.005/0.13		.100/2.54cc STRAIGHT
				0°±2°		.XXXX±.0020/0.051	scale 1:1	
				dr	T.BREWBAKER	12/21/94		dwg no sheet 3 of 8 size
				engr	T.HANNA	12/21/94		67996 A3
				chr	J.MURPHY	12/21/94		
				appd	T.HANNA	12/21/94		type Product Customer Drawing
sheet index	revision sheet							

PRODUCT NUMBER	TOT. PIN LGTH. DIM F ENGLISH	DIM F METRIC	TAIL LENGTH DIM G ENGLISH	DIM G METRIC	MATING LENGTH DIM H ENGLISH	DIM H METRIC	PACKAGING	NOTES	BERGSTRIP ™ AVAILABLE	LF OPTION
55005−XYYH	0.597	15.16	0.095	2.41	0.402	10.21	POLY BAGS	−	YES	NOTE 1,13
55030−XYYH	0.630	16.00	0.150	3.81	0.380	9.65	POLY BAGS	−	YES	
67996−XYY	0.425	10.80	0.095	2.41	0.230	5.84	POLY BAGS/TUBES	−	YES	
67997−XYY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	−	YES	
67997−XYYH	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	−	YES	
67998−XYY	0.525	13.34	0.107	2.72	0.318	8.08	POLY BAGS/TUBES	−	YES	
67999−XYY	0.548	13.92	0.130	3.30	0.318	8.08	POLY BAGS	−	NO	
68438−XYY	0.555	14.10	0.225	5.72	0.230	5.84	POLY BAGS/TUBES	−	NO	
68439−XYY	0.720	18.29	0.120	3.05	0.500	12.70	POLY BAGS	−	NO	
68464−XYY	0.650	16.51	0.120	3.05	0.430	10.92	POLY BAGS/TUBES	−	NO	
68481−XYY	0.480	12.19	0.095	2.41	0.285	7.24	POLY BAGS/TUBES	−	NO	
68482−XYY	0.938	23.83	0.318	8.08	0.520	13.21	POLY BAGS	−	NO	
68491−XYY	0.475	12.07	0.120	3.05	0.255	6.48	POLY BAGS/TUBES	−	NO	
68600−XYY	0.825	20.96	0.115	2.92	0.610	15.49	POLY BAGS	−	NO	
68601−XYY	0.620	15.75	0.120	3.05	0.400	10.16	POLY BAGS	−	NO	
68602−XYY	0.480	12.19	0.150	3.81	0.230	5.84	POLY BAGS	−	NO	
68690−XYY	0.533	13.54	0.115	2.92	0.318	8.08	POLY BAGS	−	NO	
68691−XYY	0.538	13.67	0.120	3.05	0.318	8.08	POLY BAGS	−	YES	
68692−XYY	0.430	10.92	0.100	2.54	0.230	5.84	POLY BAGS	−	NO	
68693−XYY	0.938	23.83	0.520	13.21	0.318	8.08	POLY BAGS	−	NO	
68716−XYY	0.828	21.03	0.410	10.41	0.318	8.08	POLY BAGS	−	NO	
68734−XYY	0.615	15.62	0.230	5.84	0.285	7.24	POLY BAGS	−	NO	
68737−XYY	0.440	11.18	0.110	2.79	0.230	5.84	POLY BAGS	−	YES	
68738−XYY	0.615	15.62	0.115	2.92	0.400	10.16	POLY BAGS	−	NO	
68739−XYY	0.486	12.34	0.156	3.96	0.230	5.84	POLY BAGS	−	NO	
68743−XYY	0.638	16.21	0.220	5.59	0.318	8.08	POLY BAGS	−	NO	
68749−XYY	0.838	21.29	0.420	10.67	0.318	8.08	POLY BAGS	−	NO	
68779−XYY	0.736	18.69	0.318	8.08	0.318	8.08	POLY BAGS	−	NO	
68783−XYY	0.375	9.53	0.045	1.14	0.230	5.84	POLY BAGS	−	NO	
68799−XYY	0.925	23.50	0.595	15.11	0.230	5.84	POLY BAGS	−	NO	NOTE 1,13

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mat'l. code SEE NOTES 2 & 3					surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified				title
CY				angles	linear	.XX±.01/0.3	INCH/MM	BERGSTIK®II HDR. D/R
				0°±2°		.XXX±.005/0.13		.100/2.54cc STRAIGHT
						.XXXX±.0020/0.051	scale 1:1	
				dr	T.BREWBAKER	12/21/94		dwg no sheet 4 of 8 size
				engr	T.HANNA	12/21/94	FCi	67996 A3
				chr	J.MURPHY	12/21/94		
				appd	T.HANNA	12/21/94		type Product Customer Drawing
sheet index	revision sheet							

form: A3