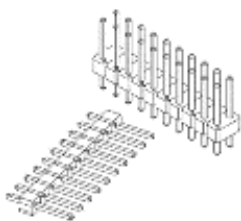


67997-272HLF

Assistant



67997-272HLF - BergStik®

Unshrouded header, Through Hole, Double row, 72 Positions, 2.54 mm Pitch, Vertical, 5.84 mm (0.23 in.) Mating, 3.05 mm (0.12 in.) Tail

ACTIVE

Customer Drawing



Electronics division

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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](#)
- [> 3D PROE](#)

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](#)

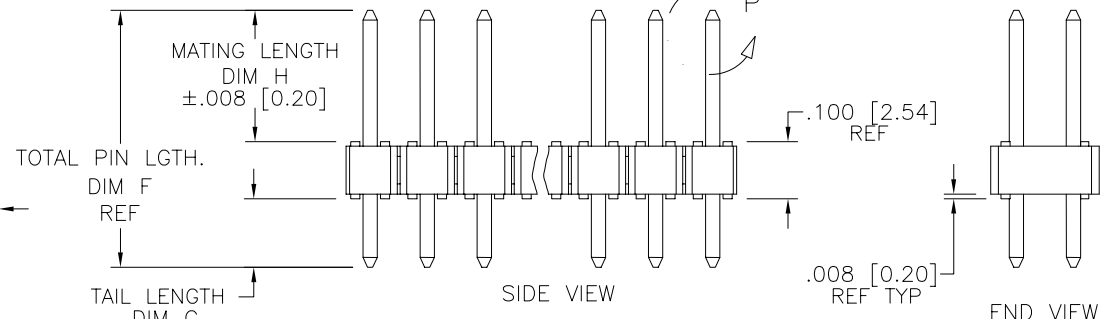
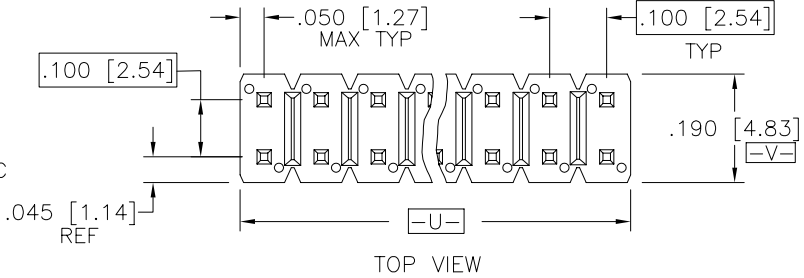
Specifications

| | |
|-----------------------------------|--|
| 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) | 11.43 mm (0.45 in.) |
| Length (Tail) | 3.05 mm (0.12 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-YYY HPLF

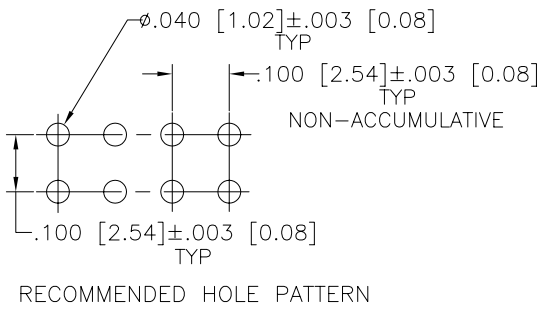
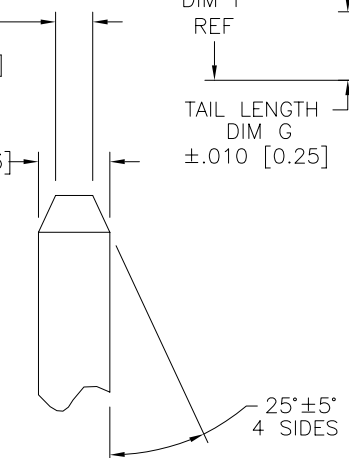
- LEAD FREE OPTION
SEE NOTE 1,13
- SPECIAL OPTIONS
SEE NOTE 1 OR 10
- HIGH TEMPERATURE PLASTIC
SEE NOTE 1
- NO. OF POSITIONS
SEE NOTE 1
- PIN PLATING
SEE SHEET 2
- BASE PART NO.



NOTE 6

Ø.020/0.51 [M] [U] [V] [S]
NOTE 4

Ø.025 [0.64] ±.001 [0.03] TYP



| | | | | | | | | | |
|--------------------------------|----------|---------------------------------------|----------|----------------------------------|-------------|-----------------------|----|--|----|
| mat'l. code SEE NOTES 2 & 3 | | surface ISO 1302 ✓ | | tolerance ISO 406 ISO 1101 | | projection INCH/MM | | product family BERGSTIK | |
| ltr ecn no dr date | | tolerances unless otherwise specified | | angles linear | | scale 1:1 | | title BERGSTIK® II HDR. D/R .100/2.54cc STRAIGHT | |
| CS | V21800 | TAB | 12/19/03 | | | | | dwg no 67996 | |
| CT | V03-0257 | DAI | 03/05/03 | | | | | sheet 1 of 8 size A3 | |
| CU | M04-0234 | MHT | 12/29/04 | 0'±2' | | | | type Product Customer Drawing | |
| CV | M05-0072 | MHT | 5/03/05 | dr | T.BREWBAKER | 12/21/94 | | | |
| CW | M06-0268 | MHT | 7/17/06 | engr | T.HANNA | 12/21/94 | | | |
| CX | M06-0346 | MHT | 9/04/06 | chr | J.MURPHY | 12/21/94 | | | |
| CY | M06-0468 | MHT | 11/27/06 | appd | T.HANNA | 12/21/94 | | | |
| sheet index | revision | CY | CY | CY | CY | CY | CY | CY | CY |
| | sheet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| PIN PLATING CODES: | |
|--------------------|---|
| XXXX-1YY | 30u"/0.76u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni |
| XXXX-2YY | 15u"/0.38u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni |
| XXXX-3YY | 50u"/1.27u MIN Au OVER 50u"/1.27u MIN Ni |
| XXXX-4YY | 100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 15) |
| XXXX-4YYHLF | |
| XXXX-5YY | 15u"/0.38u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni |
| XXXX-6YY | 30u"/0.76u MIN (SEE NOTE 14) OVER 50u"/1.27u MIN Ni |
| XXXX-7YY | 30u"/0.76u MIN Au OVER 50u"/1.27u MIN Ni |
| XXXX-8YY | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni |
| XXXX-9YY | 15u"/0.38u MIN GXT OVER 50u"/1.27u MIN Ni |
| XXXX-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 BERGSTRIK 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
BERGSTRIK™ 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-YYY-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 BERGSTRIK™ PART NUMBERS FOLLOWED BY BY A "B" ARE BULK PRICED.

- ⑪ TAIL LENGTH (DIM. G) TO BE ±.008/.020.

- 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."

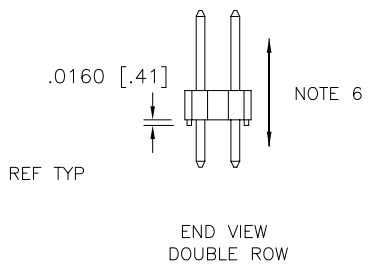
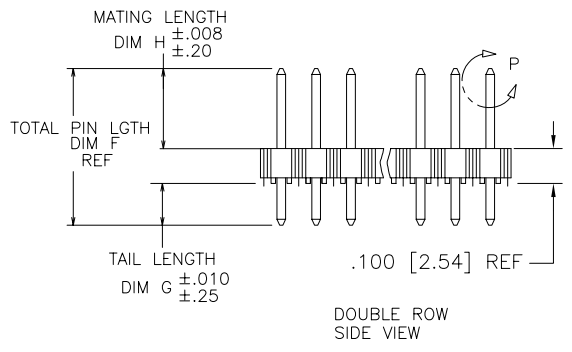
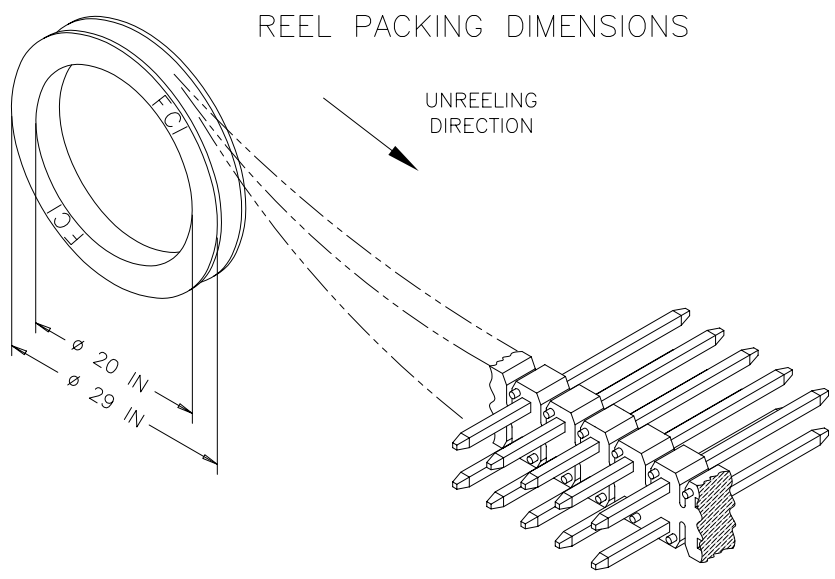
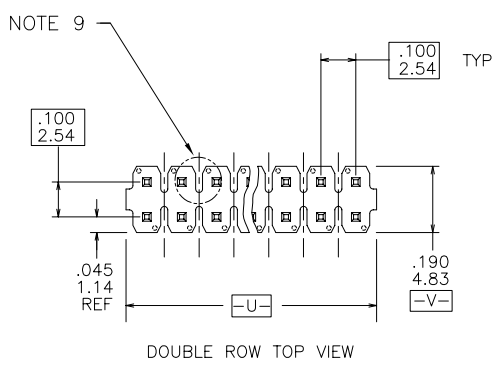


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| | | | | | |
|--------------------------------|----------------|-----------------------|----------------------------------|-----------------|---|
| mat'l. code SEE NOTES 2 & 3 | | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection ⊕ | product family BERGSTIK |
| ltr | ecn | no | dr | date | tolerances unless otherwise specified |
| CY | | | | | angles linear .XX±.01/0.3 .XXX±.005/0.13 0'±2' .XXX±.0020/0.051 |
| | | | | | INCH/MM scale 1:1 |
| | | | | | title BERGSTIK®II HDR. D/R .100/2.54cc STRAIGHT |
| | | | | | dwg no 67996 |
| | | | | | sheet 2 of 8 size A3 |
| | | | | | type Product Customer Drawing |
| sheet index | revision sheet | | | | |

1 | 2 | 3 | 4 | 5 | 6

BERGSTRIPTM HEADER



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

form: A3 | 1 | 2 | 3 | 4 | 5 | 6

| PRODUCT NUMBER | 1 TOT. PIN LGTH. | | TAIL LENGTH | | 2 3 MATING LENGTH | | PACKAGING | NOTES | BERGSTRIIP™ AVAILABLE | LF OPTION |
|----------------|--------------------|--------|-------------|--------|-----------------------|--------|-----------------|-------|--------------------------|--------------|
| | DIM F | DIM F | DIM G | DIM G | DIM H | DIM H | | | | |
| | ENGLISH | METRIC | ENGLISH | METRIC | ENGLISH | METRIC | | | | |
| 55005-XYH | 0.597 | 15.16 | 0.095 | 2.41 | 0.402 | 10.21 | POLY BAGS | - | YES | NOTE 1,13 |
| 55030-XYH | 0.630 | 16.00 | 0.150 | 3.81 | 0.380 | 9.65 | POLY BAGS | - | YES | |
| 67996-XYH | 0.425 | 10.80 | 0.095 | 2.41 | 0.230 | 5.84 | POLY BAGS/TUBES | - | YES | |
| 67997-XYH | 0.450 | 11.43 | 0.120 | 3.05 | 0.230 | 5.84 | POLY BAGS/TUBES | - | YES | |
| 67997-XYH | 0.450 | 11.43 | 0.120 | 3.05 | 0.230 | 5.84 | POLY BAGS/TUBES | - | YES | |
| 67998-XYH | 0.525 | 13.34 | 0.107 | 2.72 | 0.318 | 8.08 | POLY BAGS/TUBES | - | YES | |
| 67999-XYH | 0.548 | 13.92 | 0.130 | 3.30 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68438-XYH | 0.555 | 14.10 | 0.225 | 5.72 | 0.230 | 5.84 | POLY BAGS/TUBES | - | NO | |
| 68439-XYH | 0.720 | 18.29 | 0.120 | 3.05 | 0.500 | 12.70 | POLY BAGS | - | NO | |
| 68464-XYH | 0.650 | 16.51 | 0.120 | 3.05 | 0.430 | 10.92 | POLY BAGS/TUBES | - | NO | |
| 68481-XYH | 0.480 | 12.19 | 0.095 | 2.41 | 0.285 | 7.24 | POLY BAGS/TUBES | - | NO | |
| 68482-XYH | 0.938 | 23.83 | 0.318 | 8.08 | 0.520 | 13.21 | POLY BAGS | - | NO | |
| 68491-XYH | 0.475 | 12.07 | 0.120 | 3.05 | 0.255 | 6.48 | POLY BAGS/TUBES | - | NO | |
| 68600-XYH | 0.825 | 20.96 | 0.115 | 2.92 | 0.610 | 15.49 | POLY BAGS | - | NO | |
| 68601-XYH | 0.620 | 15.75 | 0.120 | 3.05 | 0.400 | 10.16 | POLY BAGS | - | NO | |
| 68602-XYH | 0.480 | 12.19 | 0.150 | 3.81 | 0.230 | 5.84 | POLY BAGS | - | NO | |
| 68690-XYH | 0.533 | 13.54 | 0.115 | 2.92 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68691-XYH | 0.538 | 13.67 | 0.120 | 3.05 | 0.318 | 8.08 | POLY BAGS | - | YES | |
| 68692-XYH | 0.430 | 10.92 | 0.100 | 2.54 | 0.230 | 5.84 | POLY BAGS | - | NO | |
| 68693-XYH | 0.938 | 23.83 | 0.520 | 13.21 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68716-XYH | 0.828 | 21.03 | 0.410 | 10.41 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68734-XYH | 0.615 | 15.62 | 0.230 | 5.84 | 0.285 | 7.24 | POLY BAGS | - | NO | |
| 68737-XYH | 0.440 | 11.18 | 0.110 | 2.79 | 0.230 | 5.84 | POLY BAGS | - | YES | |
| 68738-XYH | 0.615 | 15.62 | 0.115 | 2.92 | 0.400 | 10.16 | POLY BAGS | - | NO | |
| 68739-XYH | 0.486 | 12.34 | 0.156 | 3.96 | 0.230 | 5.84 | POLY BAGS | - | NO | |
| 68743-XYH | 0.638 | 16.21 | 0.220 | 5.59 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68749-XYH | 0.838 | 21.29 | 0.420 | 10.67 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68779-XYH | 0.736 | 18.69 | 0.318 | 8.08 | 0.318 | 8.08 | POLY BAGS | - | NO | |
| 68783-XYH | 0.375 | 9.53 | 0.045 | 1.14 | 0.230 | 5.84 | POLY BAGS | - | NO | |
| 68799-XYH | 0.925 | 23.50 | 0.595 | 15.11 | 0.230 | 5.84 | POLY BAGS | - | NO | |



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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 | | INCH/MM | | title BERGSTIK® II HDR. D/R .100/2.54cc STRAIGHT | |
| CY | | angles | | linear .XX±.01/0.3 | | scale 1:1 | | dwg no 67996 | |
| | | 0'±2' | | .XXX±.005/0.13 | | | | sheet 4 of 8 size A3 | |
| | | | | .XXX±.0020/0.051 | | | | type Product Customer Drawing | |
| sheet index | | revision sheet | | dr T.BREWBAKER 12/21/94 | | FCI | | | |
| | | | | enr T.HANNA 12/21/94 | | | | | |
| | | | | chr J.MURPHY 12/21/94 | | | | | |
| | | | | appd T.HANNA 12/21/94 | | | | | |