

PRODUCT NUMBER  
SEE TABLE

M2.5 OVAL HEAD SCREWS

PLUG ASSEMBLY:  
WITH or WITHOUT PCB  
SEE CHART ON SHEET 5.

M2.5 THUMBSCREWS  
SEE NOTE 5

THUMBSCREW COVERS

CABLE COLLAR:  
3 SIZES AVAILABLE  
SEE APPLICATION SPECIFICATION  
GS-20-026 TO SELECT THE  
CORRECT SIZE FOR THE DIAMETER  
OF CABLE.

TOLERANCES UNLESS OTHERWISE  
SPECIFIED

|         |       |       |
|---------|-------|-------|
| LINEAR  | 0.X   | ±.3   |
|         | 0.XX  | ±.10  |
|         | 0.XXX | ±.050 |
| ANGULAR | 0°    | ±2°   |

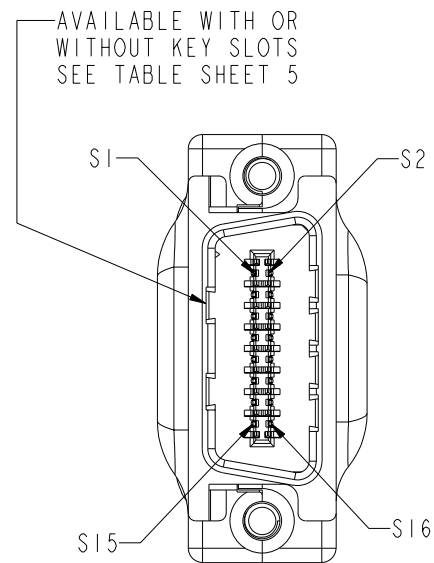
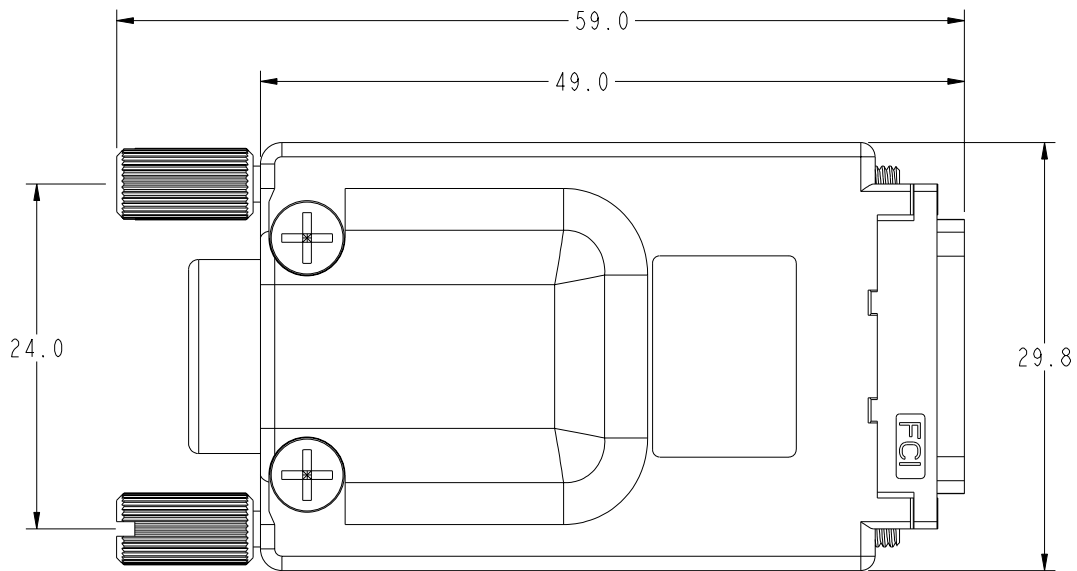
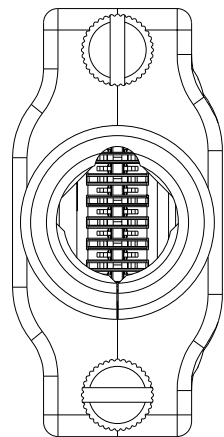
| rev | ecn no   | dr  | date     |
|-----|----------|-----|----------|
| B   | V03-1084 | DAI | 11/14/03 |
| C   | V04-0016 | DAI | 02/11/04 |
| D   | V04-0508 | DAI | 06/16/04 |
| E   | V04-1005 | DAI | 10/6/04  |
| F   | V05-0064 | TAB | 03/07/05 |
| G   | V05-0543 | TAB | 06/29/05 |
| H   | M08-0009 | AGS | 01/14/08 |

|                                       |           |          |                           |                             |                          |            |              |
|---------------------------------------|-----------|----------|---------------------------|-----------------------------|--------------------------|------------|--------------|
| www.fciconnect.com                    |           |          | surface 3.2<br>ASME Y14.5 | tolerance std<br>ASME Y14.5 | projection<br>ASME Y14.5 | size<br>A4 | Scale<br>1:1 |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |           |          | ANGULAR                   | LINEAR                      | 0.X<br>±                 | 0.XX<br>±  | 0.XXX<br>±   |
| Dr                                    | G. PETERS | 08/21/03 | 0°                        | ±°                          | ECN                      | M08-0009   | Spec ref     |
| Eng                                   | D. BRANN  | 08/21/03 | Product family            |                             | EyeMax (TM)              | -          |              |
| Chr                                   | D. BRANN  | 08/21/03 | title                     |                             | 4X THUMBSCREW PLUG KIT   | 10013923   |              |
| Appr                                  | D. BRANN  | 08/21/03 | EYEMAX(tm)                |                             | catalog no               | CUSTOMER   | sheet 1 of 6 |
| FCI                                   |           |          | Rev.                      |                             | H                        |            |              |



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PRODUCT NUMBER  
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SEE NOTE 5

|  |            |                        |          |              |      |   |
|--|------------|------------------------|----------|--------------|------|---|
|  | title      | 4X THUMBSCREW PLUG KIT | dwg no   | 10013923     | Rev. | H |
|  | EYEMAX(tm) |                        |          |              |      |   |
|  | catalog no | -                      | CUSTOMER | sheet 2 of 6 |      |   |

REV F - 2006-04-17

PDM: Rev:H

STATUS: Released

Printed: Jul 22, 2010



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PRODUCT NUMBER  
SEE TABLE

DATE CODE AREA

KEYING FEATURE

SIGNAL POSITION 1

GROUND  
POSITION 1

POSITION MARK #1

|  |            |                       |          |              |      |   |
|--|------------|-----------------------|----------|--------------|------|---|
|  | title      | 4X THUMSCREW PLUG KIT | dwg no   | 10013923     | Rev. | H |
|  | title      | EYEMAX(tm)            |          |              |      |   |
|  | catalog no | -                     | CUSTOMER | sheet 3 of 6 |      |   |

REV F - 2006-04-17

PDM: Rev:H

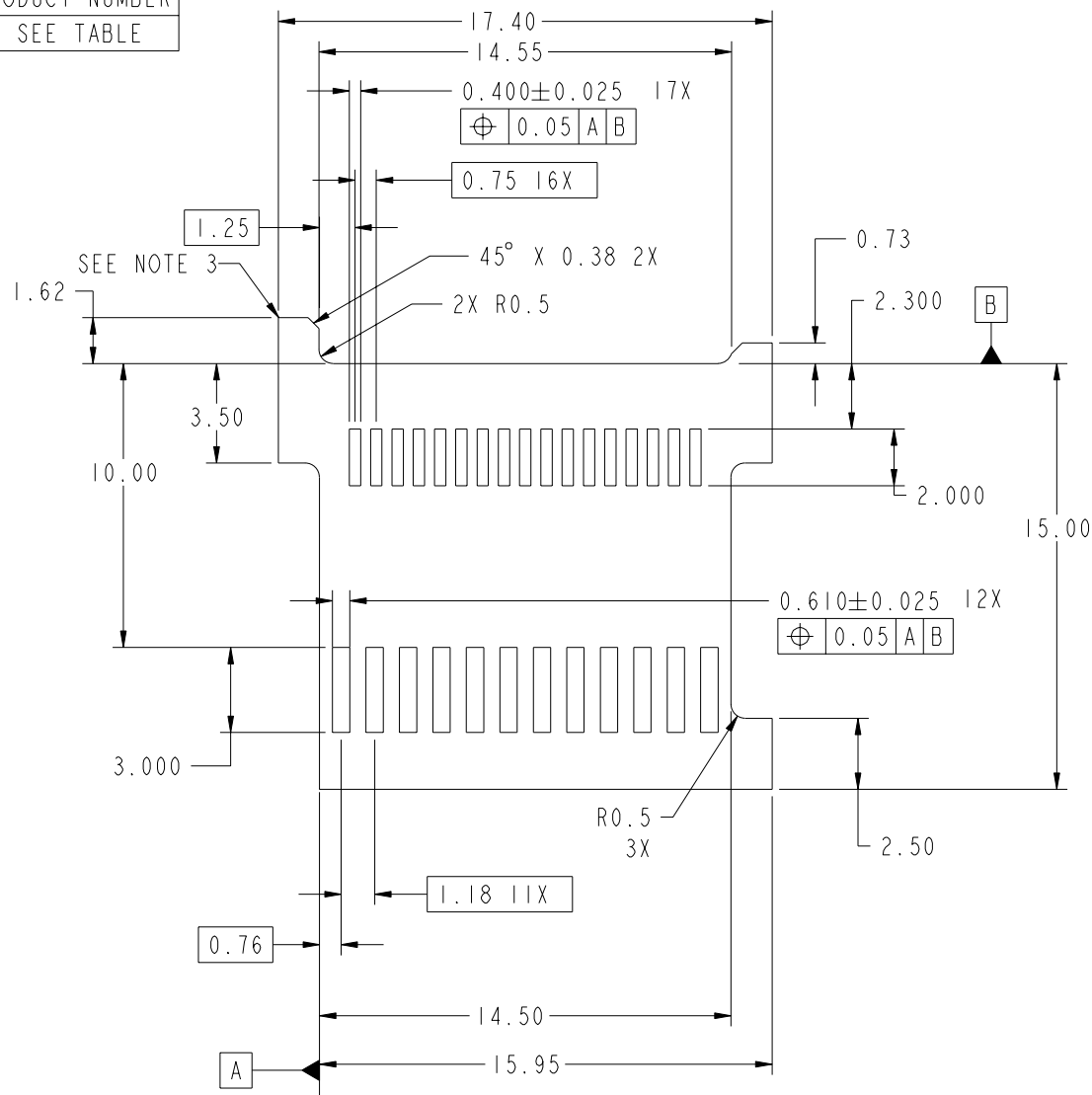
STATUS: Released

Printed: Jul 22, 2010



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SEE TABLE



## RECOMMENDED 4X PCB LAYOUT

|  |            |                        |          |              |      |   |
|--|------------|------------------------|----------|--------------|------|---|
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|  | catalog no | -                      | CUSTOMER | sheet 4 of 6 |      |   |

A

B

C

D

A

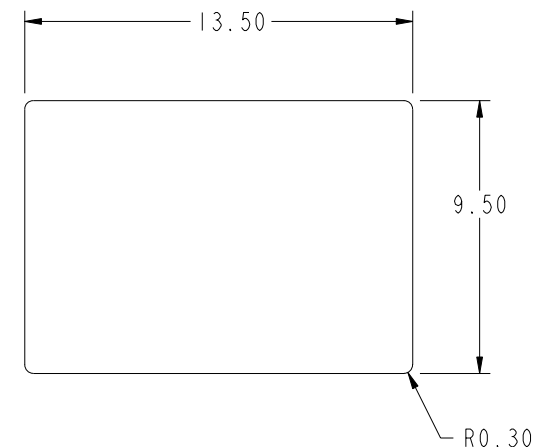
B

C

D

| PRODUCT NUMBER | WITH KEY SLOTS | DESCRIPTION                                       |
|----------------|----------------|---------------------------------------------------|
| 10013923-001   | YES            | PLUG KIT WITH UNEQUALIZED P1 PCB                  |
| 10013923-002   | YES            | PLUG KIT WITHOUT PCB                              |
| 10013923-003   | YES            | PLUG KIT WITH EQUALIZED P1 PCB WITHOUT COMPONENTS |
| 10013923-004   | YES            | PLUG KIT WITH EQUALIZED P1 PCB WITH COMPONENTS    |
| 10013923-011   | NO             | PLUG KIT WITH UNEQUALIZED P1 PCB                  |
| 10013923-012   | NO             | PLUG KIT WITHOUT PCB                              |
| 10013923-013   | NO             | PLUG KIT WITH EQUALIZED P1 PCB WITHOUT COMPONENTS |
| 10013923-014   | NO             | PLUG KIT WITH EQUALIZED P1 PCB WITH COMPONENTS    |
| 10013923-101   | YES            | PLUG KIT WITH UNEQUALIZED P2 PCB                  |
| 10013923-103   | YES            | PLUG KIT WITH EQUALIZED P2 PCB WITHOUT COMPONENTS |
| 10013923-104   | YES            | PLUG KIT WITH EQUALIZED P2 PCB WITH COMPONENTS    |
| 10013923-111   | NO             | PLUG KIT WITH UNEQUALIZED P2 PCB                  |
| 10013923-113   | NO             | PLUG KIT WITH EQUALIZED P2 PCB WITHOUT COMPONENTS |
| 10013923-114   | NO             | PLUG KIT WITH EQUALIZED P2 PCB WITH COMPONENTS    |

\* ADD LF TO PRODUCT NUMBERS FOR LEAD FREE SOLDER TAILS  
EXAMPLE: 10013923-001LF



**RECOMMENDED CUSTOMER LABEL SIZE**



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#### PCB NOTES:

1. PADS ON BOTH SIDES OF PCB.
2. DIMENSIONS APPLY TO BOTH SIDES OF PCB LOCATED FROM DATUMS A & B.
3. EXTENSIONS SHOULD NOT BE USED TO LOCATE SOLDER TAILS TO SOLDER PADS ONLY AS AID IN ASSEMBLY BY LIMITING TOP TO BOTTOM MOVEMENT OF PCB.
4. PCB THICKNESS: 1.57mm (.062").

#### LEAD FREE NOTES:

1. IF LEAD FREE PART NUMBER, THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.60mm THICK CIRCUIT BOARD.
2. PACKAGING OF LEAD FREE PRODUCTS MEETS LABELING AND PACKAGING SPECIFICATION GS-14-920.
3. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

#### NOTES:

1. PACKAGING SPECIFICATION: GS-14-794
2. APPLICATION SPECIFICATION: GS-20-026 FOR PADDLE CARD AND CABLE TERMINATION DETAILS. FOR EASE OF WIRE MANAGEMENT, A P1 ASSEMBLY IS RECOMMENDED ON ONE END OF THE CABLE AND A P2 ASSEMBLY ON THE OTHER END.
3. PRODUCT SPECIFICATION: GS-12-209
4. MATERIAL:
  - CONTACTS: COPPER ALLOY WITH Au OVER Ni PLATING IN THE CONTACT AREA AND SOLDER TAIL PLATING: TIN-LEAD UNLESS THE PART NUMBER ENDS IN LF. FOR A PART THAT ENDS IN LF (LEAD FREE), 2um MIN MATTE TIN OVER 1.27um MIN Ni UNDERPLATING.
  - HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0 RATED, SUITABLE FOR REFLOW SOLDERING.
  - SHELLS: ZINC WITH NICKEL PLATING AND COPPER UNDERPLATING.
  - CABLE COLLAR: THERMOPLASTIC
  - THUMB SCREWS, OVAL HD. SCREWS: STAINLESS STEEL
5. RECOMMENDED MAXIMUM TORQUE FOR ATTACHING THUMBSCREW TO MATING RECEPTACLE: 0.225 N-m (2.0 lbf-in).
6. MATES WITH RECEPTACLE 10009629.
7. PLUG ASSEMBLIES, COVER ASSEMBLY KITS (10021736) AND CABLE COLLARS (10007239) CAN BE PURCHASED AS SEPERATE ITEMS. PLUG ASSEMBLY DRAWINGS: ARE 58443-NO PCB, 58638-UNEQUALIZED, 10026692-EQUALIZED.

|  |            |                        |          |              |      |  |
|--|------------|------------------------|----------|--------------|------|--|
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|  | EYEMAX(tm) |                        |          |              | H    |  |
|  | catalog no | -                      | CUSTOMER | sheet 6 of 6 |      |  |