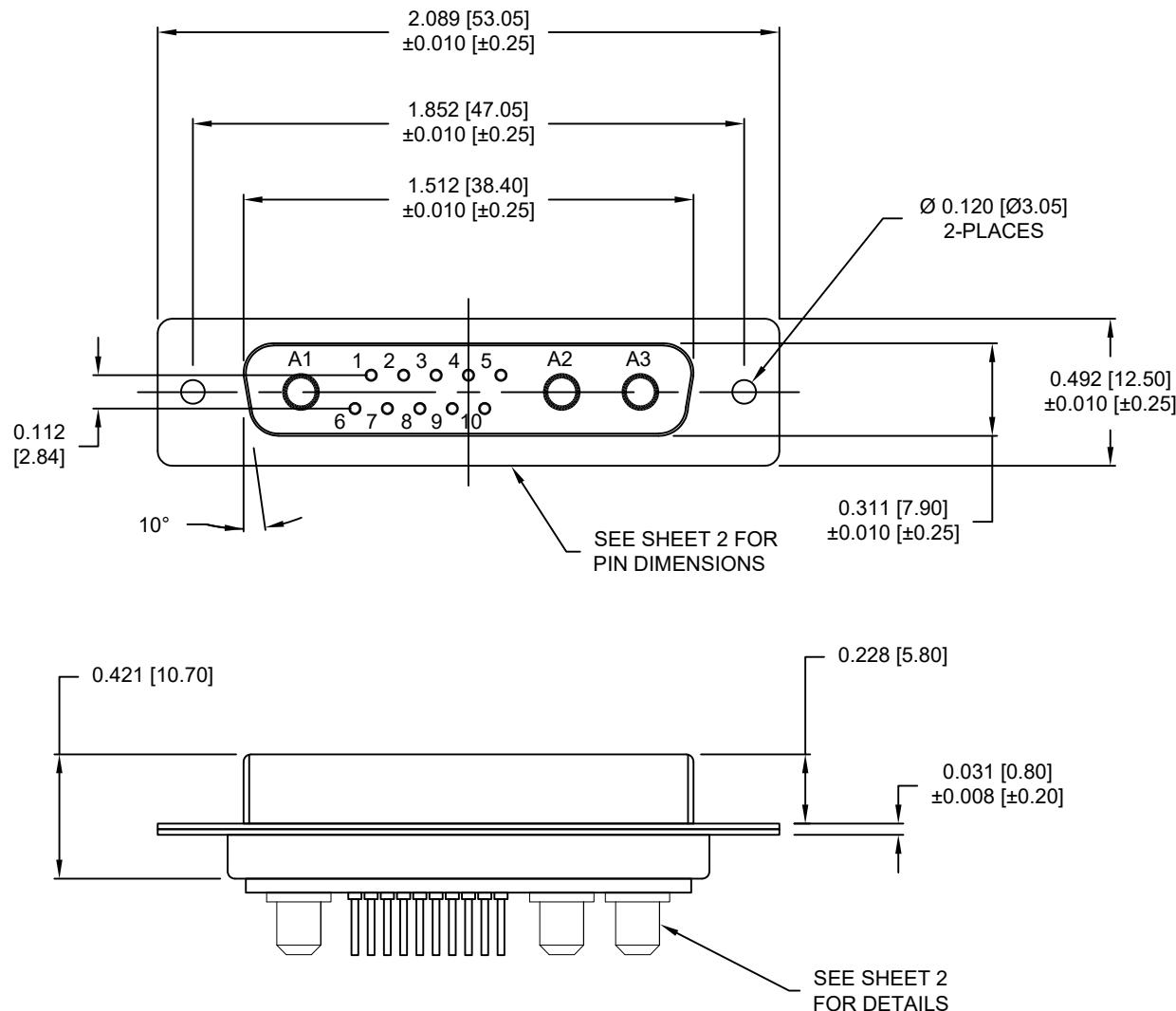


DESCRIPTION: POWER / SIGNAL - VERTICAL BOARD - FEMALE



SPECIFICATIONS:

ELECTRICAL:

INSULATION RESISTANCE: 5 GΩ MIN.  
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VAC FOR 1 MIN  
WORKING VOLTAGE: 250V  
OPERATING TEMPERATURE: -55°C TO +125°C  
POWER CONTACT RESISTANCE: 2.0 mΩ MAX.  
SIGNAL CONTACT RESISTANCE: 10 mΩ MAX.  
POWER PINS: 40 AMPS  
SIGNAL PINS: 5 AMPS

MECHANICAL:

CONTACT INSERTION FORCE: 4.5 Kg MAX.  
CONTACT SEPARATION FORCE: 0.3 Kg MIN.

MATERIALS:

CONTACTS: COPPER ALLOY, GOLD FLASH  
INSULATOR: PBT UL94V-0 RATED  
230°C PROCESS TEMP.  
SEAL: F04 FLEXIBLE ADHESIVE  
SHELL: NICKEL PLATED STEEL  
HARDWARE: NICKEL PLATED BRASS

681S13W3203LYYY

0 = 40 AMP  
1 = 40 AMP POWER // 2.22mm PCB TAILS  
0 = NO HARDWARE  
4 = 0.237" BOARDLOCK PCB SIDE  
1 = GOLD FLASH

MEETS IP67 STANDARDS  
(SEE PAGE 2 FOR SEALING DETAILS)

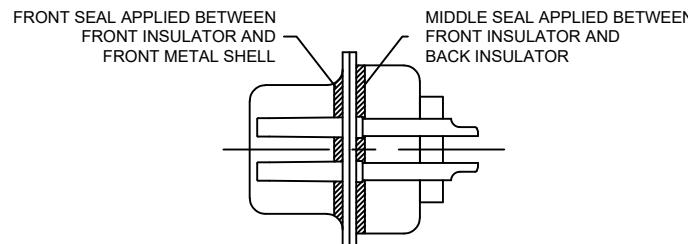
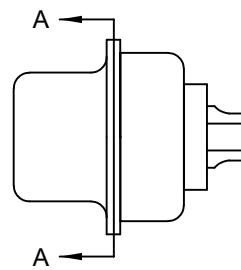
RoHS COMPLIANT

|  |   |            |
|--|---|------------|
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|  |   | P. JENKINS |
| DATE:<br>09/13/2011  | SCALE:  | NTS        |
|  | SHEET   | 1 OF 4     |

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|                         |                 |          |
|-------------------------|-----------------|----------|
| SCALE:<br>NTS           | SHEET<br>1 OF 4 | REV<br>4 |
| DWG NO. 681S13W3203LYYY |                 |          |

|                         |                 |          |
|-------------------------|-----------------|----------|
| SCALE:<br>NTS           | SHEET<br>1 OF 4 | REV<br>4 |
| DWG NO. 681S13W3203LYYY |                 |          |



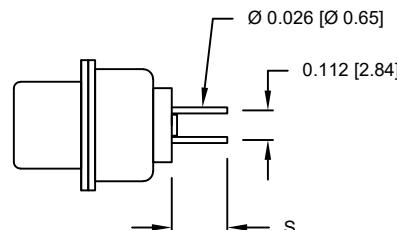
DETAIL A-A

SHOWN FOR REFERENCE ONLY

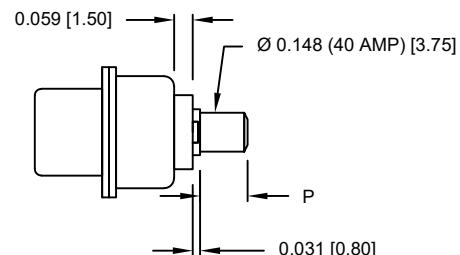
NOTE:  
SIGNAL AND POWER CONTACTS  
COME PRE-LOADED INTO INSULATORS

| DIMENSIONS(in/mm) |       |       |
|-------------------|-------|-------|
| OPTION            | S     | P     |
| 0                 | 0.218 | 0.177 |
|                   | 5.55  | 4.50  |
| 1                 | 0.118 | 0.087 |
|                   | 3.02  | 2.22  |

SIGNAL CONTACTS



POWER CONTACTS



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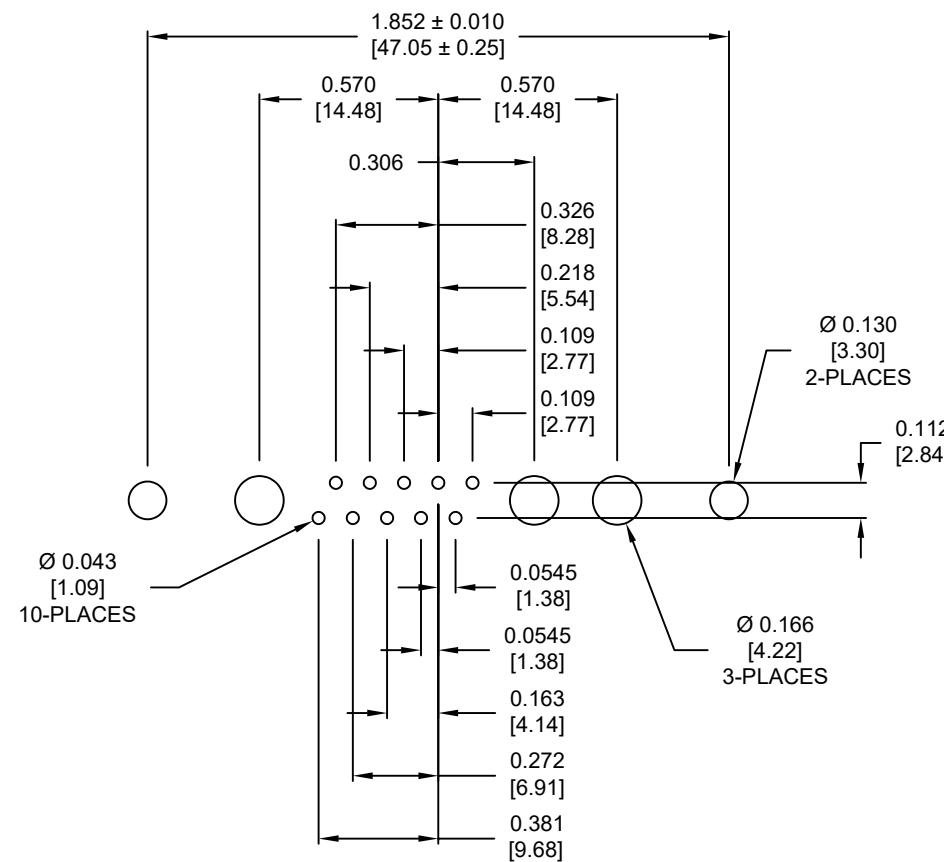
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DRAWN:  
P. JENKINS  
DATE:  
09/13/2011

UNITS = INCHES [MM] DO NOT SCALE FROM DRAWING

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|                            |            |         |          |
|----------------------------|------------|---------|----------|
| SCALE:<br>NTS              | SHEET<br>2 | OF<br>4 | REV<br>4 |
| DWG NO.<br>681S13W3203LYYY |            |         |          |



RECOMMENDED PCB LAYOUT  
TOLERANCE ± 0.002 [0.05]

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DATE:  
09/13/2011

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|                            |            |         |          |
|----------------------------|------------|---------|----------|
| SCALE:<br>NTS              | SHEET<br>3 | OF<br>4 | REV<br>4 |
| DWG NO.<br>681S13W3203LYYY |            |         |          |

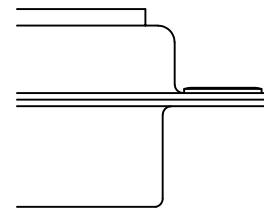
DESCRIPTION: CLINCH NUT HARDWARE

ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

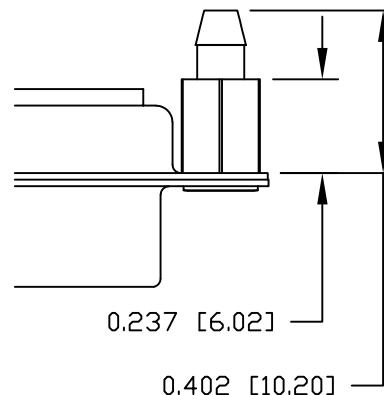
TOLERANCE:

ALL DIMENSIONS ARE  $\pm 0.010$

0 ..... NO HARDWARE



4 ..... 0.237" PCB SIDE



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DATE:  
09/13/2011

UNITS = INCHES [MM] DO NOT SCALE FROM DRAWING

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|                            |            |         |          |
|----------------------------|------------|---------|----------|
| SCALE:<br>NTS              | SHEET<br>4 | OF<br>4 | REV<br>4 |
| DWG NO.<br>681S13W3203LYYY |            |         |          |