

## DESCRIPTION: POWER / SIGNAL - VERTICAL - MALE - MACHINED

## SPECIFICATIONS:

**ELECTRICAL:**

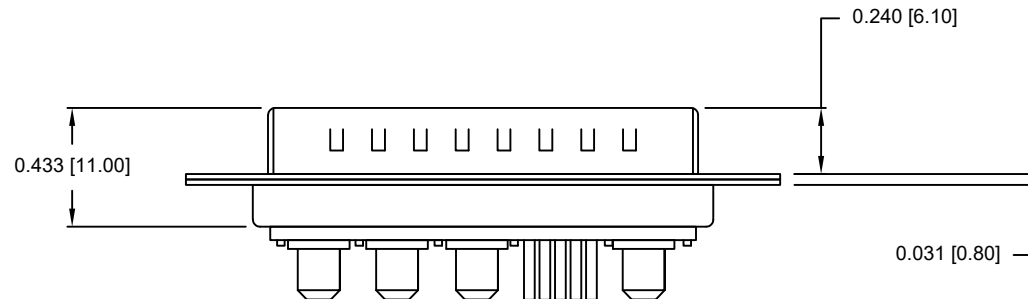
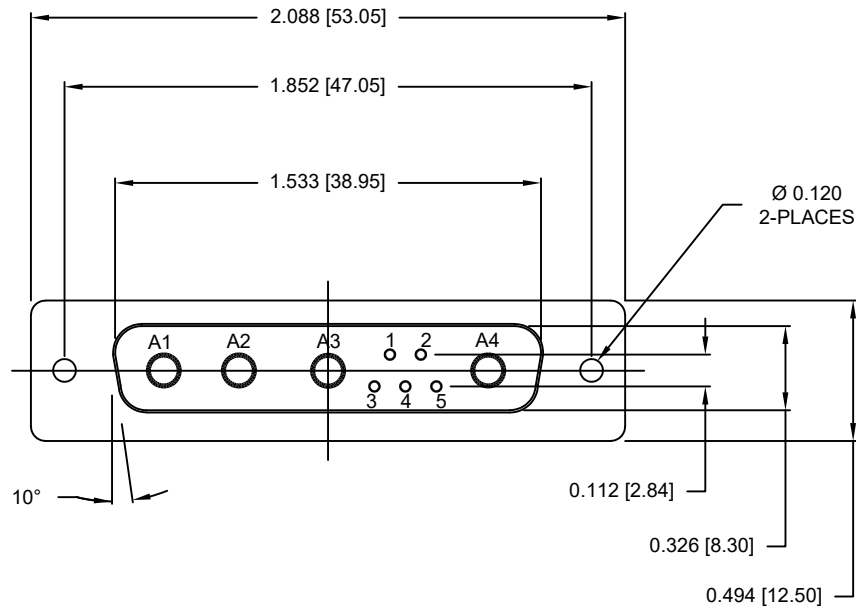
|                                  |                    |
|----------------------------------|--------------------|
| INSULATION RESISTANCE:           | 5 Gohms MIN.       |
| DIELECTRIC WITHSTANDING VOLTAGE: | 1000 VAC FOR 1 MIN |
| WORKING VOLTAGE:                 | 250V               |
| OPERATING TEMPERATURE:           | -55°C TO +125°C    |
| POWER CONTACT RESISTANCE:        | 2.0 mOhms MAX.     |
| SIGNAL CONTACT RESISTANCE:       | 10 mOhms MAX.      |
| POWER CONTACT AMPERAGE:          | SEE P/N KEY        |
| SIGNAL CONTACT AMPERAGE:         | 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<br>230°C PROCESS TEMP. |
| SHELL:     | NICKEL PLATED STEEL                      |
| HARDWARE:  | NICKEL PLATED BRASS                      |

SEE SHEET 2  
FOR CONTACT DIMENSION DETAILS**681M9W4103LYYY**

0 = 40 AMP POWER // STANDARD PCB TAILS  
 1 = 40 AMP POWER // 2.22mm PCB TAILS  
 2 = 20 AMP POWER // STANDARD PCB TAILS

0 = NO HARDWARE  
 1 = 0.098" CN PCB SIDE  
 2 = 0.236" CN PCB SIDE  
 3 = 0.236" CN MATING SIDE  
 4 = 0.237" BOARDLOCK PCB SIDE  
 5 = 0.224" BOARDLOCK PCB SIDE

1 = GOLD FLASH

**RoHS COMPLIANT**

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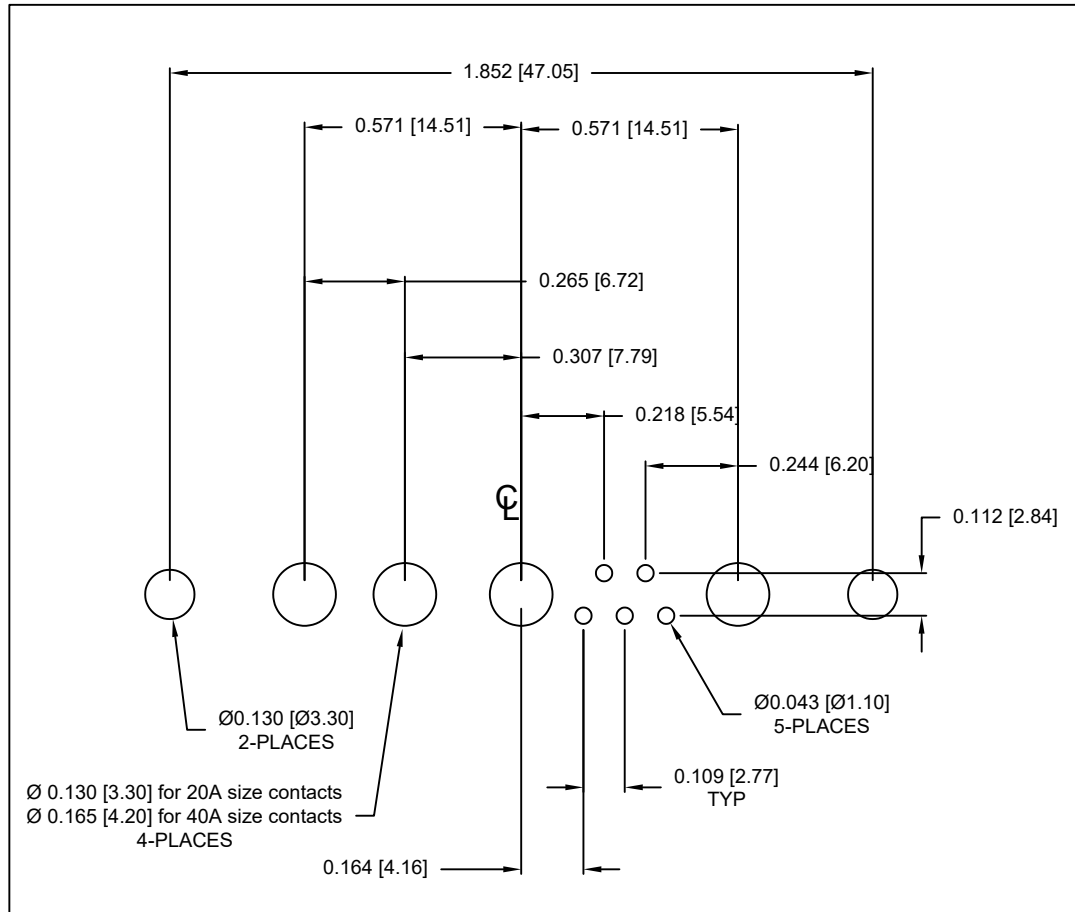
DRAWN:  
M. SIGMONDATE:  
07/19/2013

UNITS = inches [mm]

**DO NOT SCALE FROM DRAWING****NorComp**SCALE:  
NTSSHEET OF  
1 3REV  
5

DWG NO.

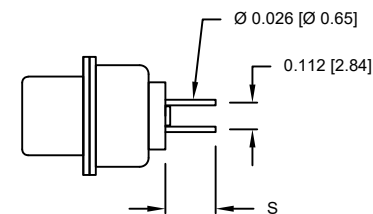
**681M9W4103LYYY**



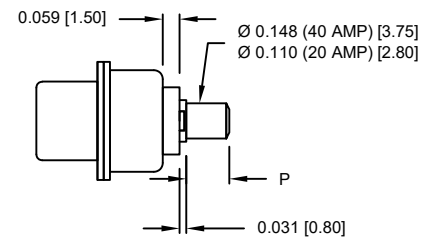
NOTE:  
SIGNAL AND POWER CONTACTS  
COME PRE-LOADED INTO INSULATORS

| DIMENSIONS(in/mm) |       |       |
|-------------------|-------|-------|
| OPTION            | S     | P     |
| 0 & 2             | 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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SHEET 2 OF 3

REV  
5

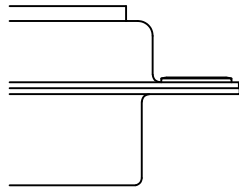
DWG NO.

681M9W4103LYYY

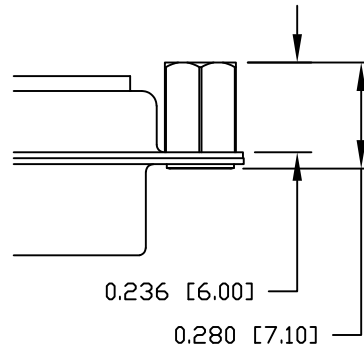
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

TOLERANCE:  
ALL DIMENSIONS ARE  $\pm 0.010$ 

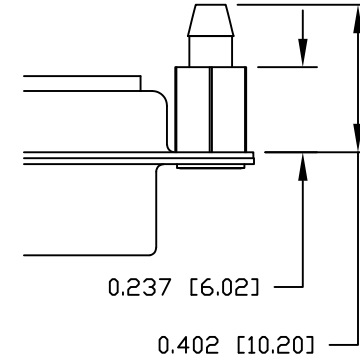
0 ..... NO HARDWARE



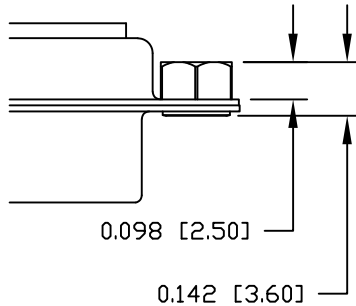
2 ..... 0.236" PCB SIDE



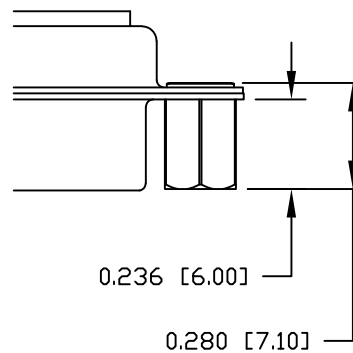
4 ..... 0.237" PCB SIDE



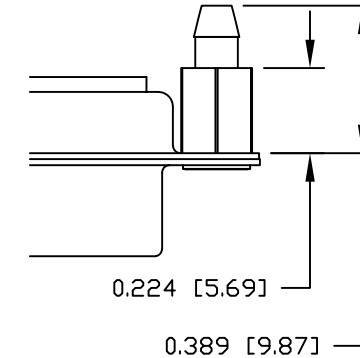
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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SHEET 3 OF 3

REV  
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DWG NO.

681M9W4103LYYY

# Mouser Electronics

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