

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

## SPECIFICATIONS:

### ELECTRICAL:

INSULATOR RESISTANCE:	5 G OHMS Min.
DIELECTRIC WITHSTANDING:	1,000VAC r.m.s.
OPERATING TEMPERATURE:	-55° C ~ +125° C
POWER CONTACT RESISTANCE:	1.0 mOHMS Max.
SIGNAL CONTACT RESISTANCE:	10 mOHMS Max.
POWER PINS:	40 AMPS
SIGNAL PINS:	5 AMPS

### MECHANICAL:

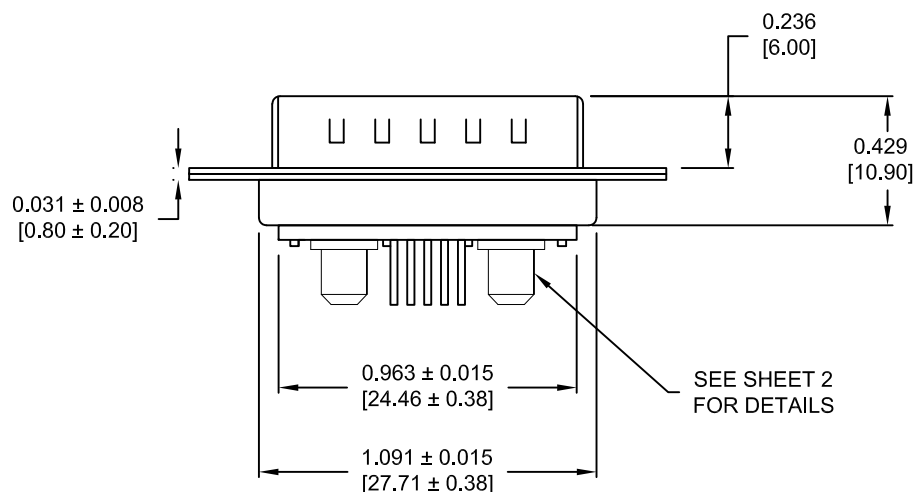
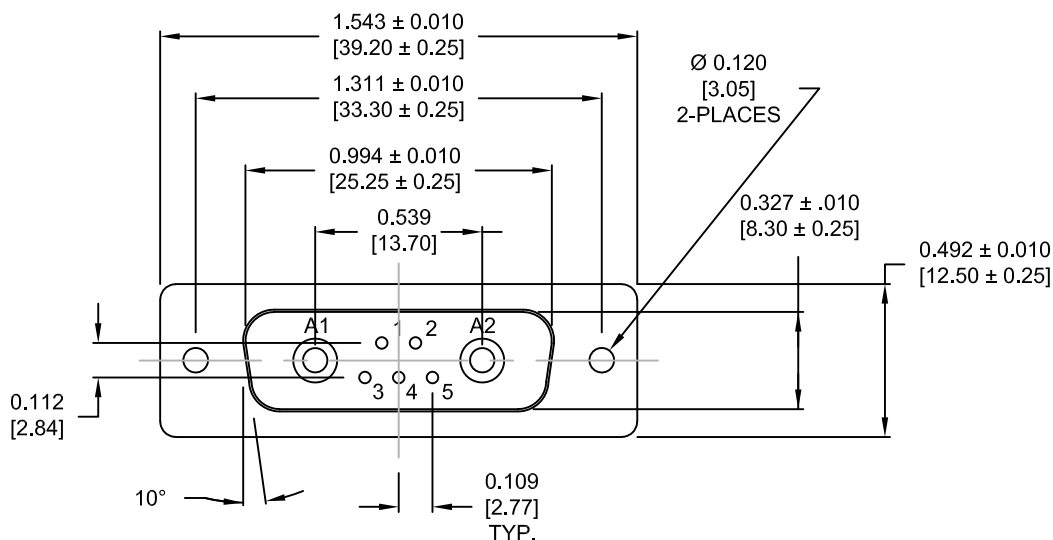
CONTACT INSERTION FORCE:	4.5 Kg Max.
CONTACT SEPARATOR FORCE:	0.3Kg Min.

### MATERIALS:

CONTACTS:	COPPER ALLOY
INSULATOR:	PBT UL94V-0 RATED, BLK
SHELL:	230°C PROCESS TEMP. STEEL

### FINISH:

SHELL:	NICKEL
CONTACTS:	FULL GOLD FLASH



## 681M7W2103LYYY

0 = 40 AMP

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

UNITS = INCHES [MM] DO NOT SCALE FROM DRAWING



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DRAWN:

P. JENKINS

DATE:

08/22/2011

NorComp

SCALE:

NTS

SHEET

1

OF

3

REV

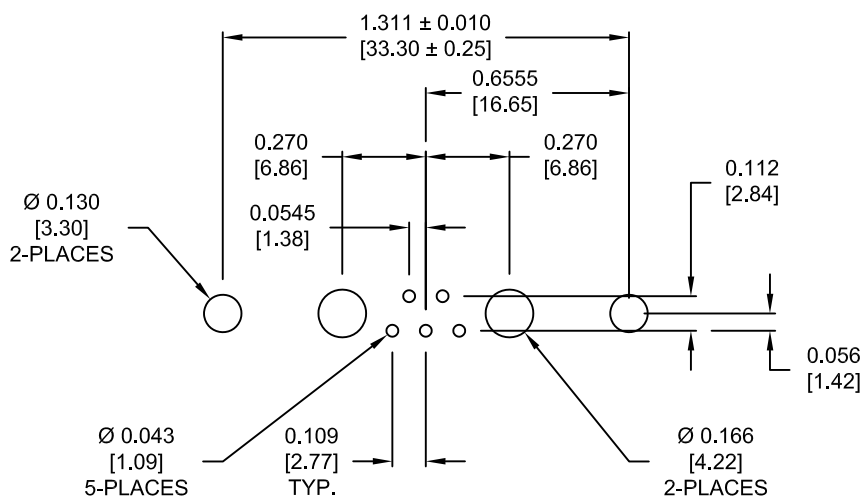
1

DWG NO.

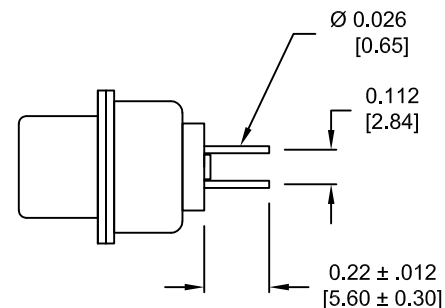
681M7W2103LYYY

DESCRIPTION: 681 SERIES CONTACTS

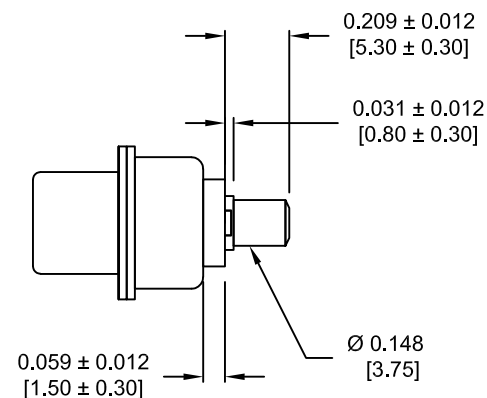
NOTE:  
SIGNAL AND POWER CONTACTS  
COME PRE-LOADED INTO INSULATORS



RECOMMENDED PCB LAYOUT  
TOLERANCE  $\pm 0.002$  [0.05]



SIGNAL CONTACTS



POWER CONTACTS

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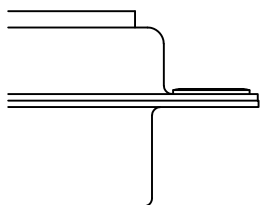
SCALE: NTS  
SHEET 2 OF 3  
REV 1  
DWG NO. 681M7W2103LYYY

DESCRIPTION: CLINCH NUT HARDWARE

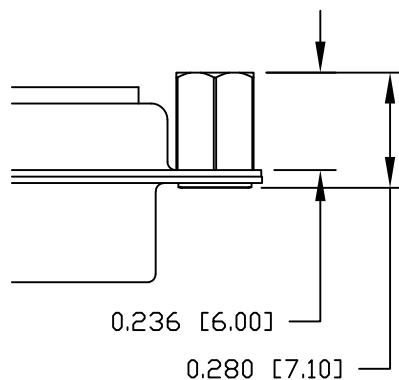
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

TOLERANCE:  
ALL DIMENSIONS ARE  $\pm 0.010$

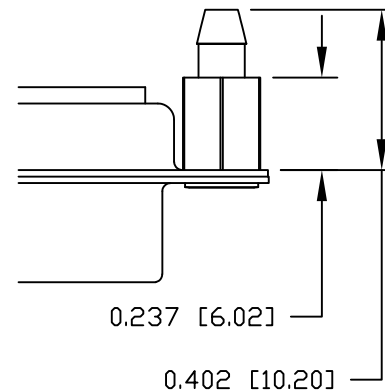
0 ..... NO HARDWARE



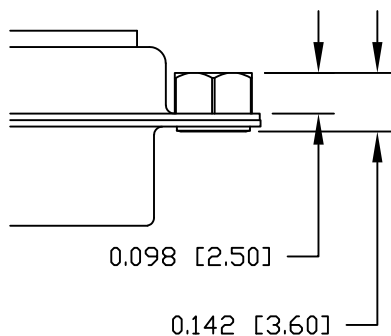
2 ..... 0.236" PCB SIDE



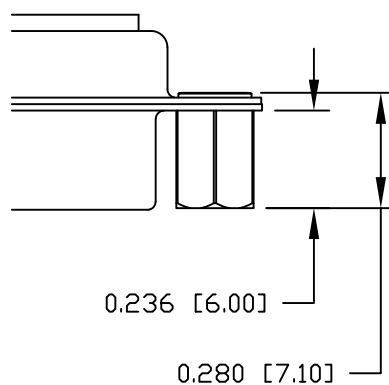
4 ..... 0.237" PCB SIDE



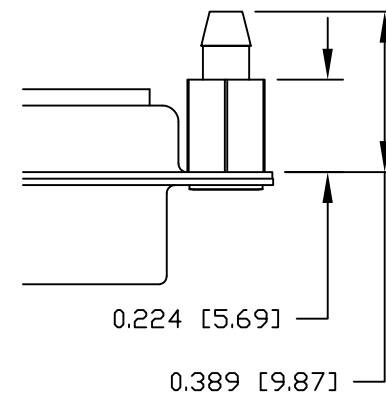
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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