

SEE SHEET 2  
FOR CONTACT DIMENSION DETAILS

## ELECTRICAL:

INSULATOR RESISTANCE: 5 GΩ MIN.  
WORKING VOLTAGE: 250V  
OPERATING TEMPERATURE: -55°C TO +125°C  
POWER CONTACT RESISTANCE: 1.0 mΩ MAX.  
POWER CONTACT AMPERAGE: SEE P/N KEY

## 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.  
SHELL: NICKEL PLATED STEEL  
BRACKET: NICKEL PLATED STEEL  
BOARD LOCK: NICKEL PLATED BRASS

681M5W5103LYYY

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

UNITS = inches [mm]

DO NOT SCALE FROM DRAWING



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DRAWN:

P. JENKINS

DATE:

06/22/2011

SCALE:

NTS

SHEET

1 OF 3

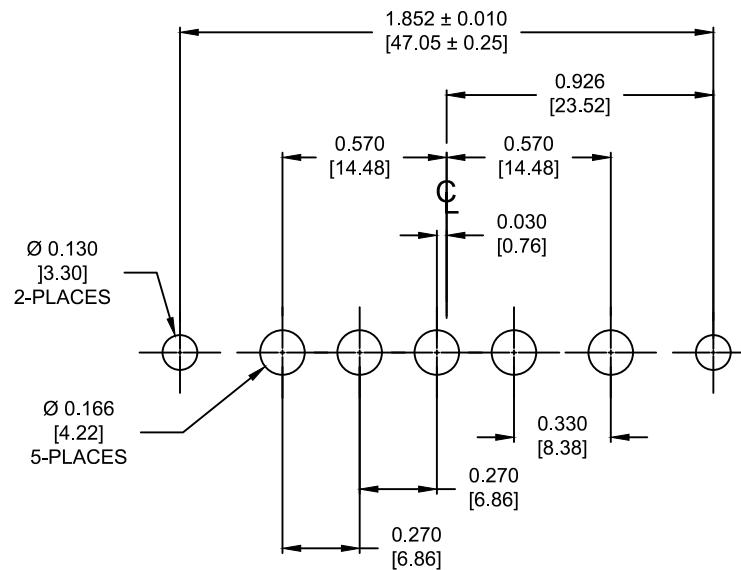
REV

2

NorComp

DWG NO.

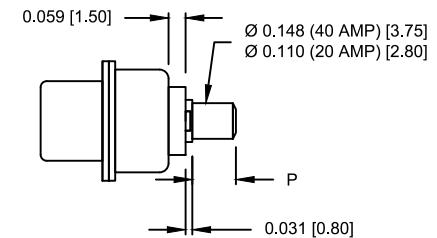
681M5W5103LYYY



RECOMMENDED PCB LAYOUT

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

DIMENSIONS (in/mm)	
OPTION	P
0 & 2	0.177
	4.50
1	0.087
	2.22

POWER CONTACTS

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DATE:  
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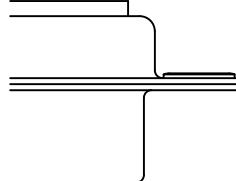
NorComp

SCALE: NTS	SHEET 2	OF 3	REV 2
DWG NO. 681M5W5103LYYY			

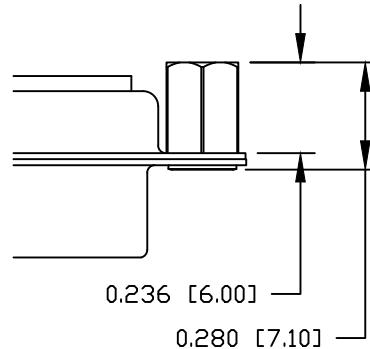
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

**TOLERANCE:**  
ALL DIMENSIONS ARE  $\pm 0.010$

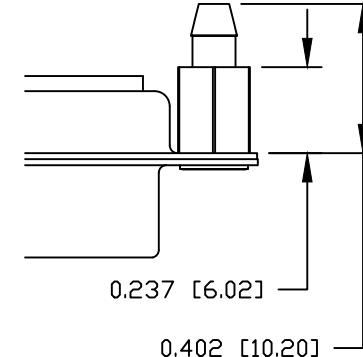
0 ..... NO HARDWARE



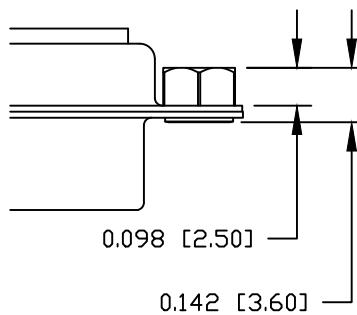
2 ..... 0.236" PCB SIDE



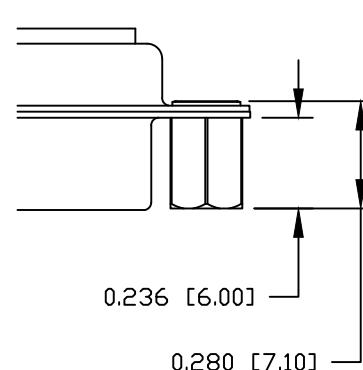
4 ..... 0.237" PCB SIDE



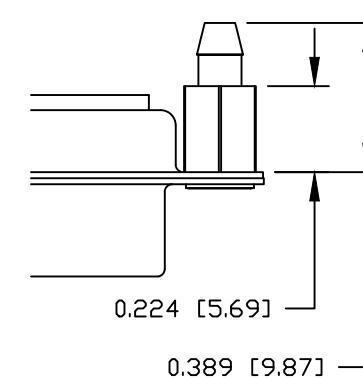
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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