

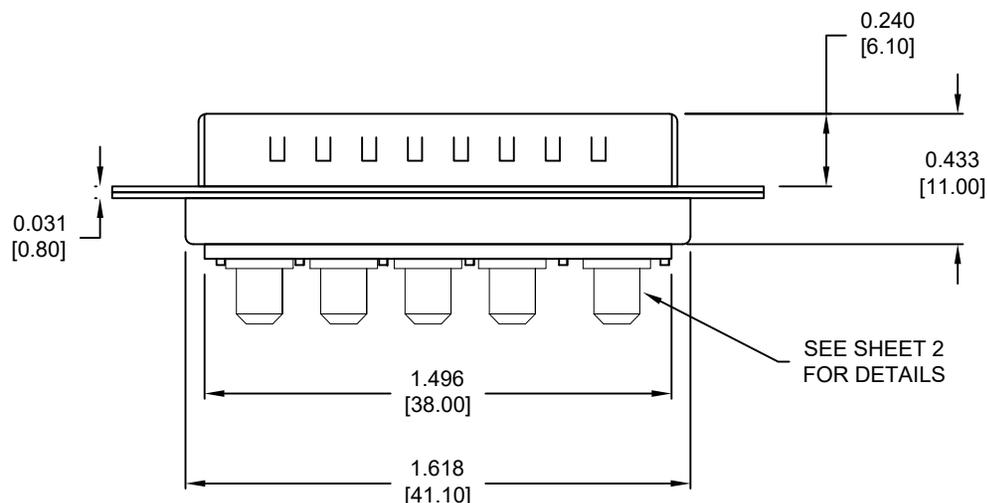
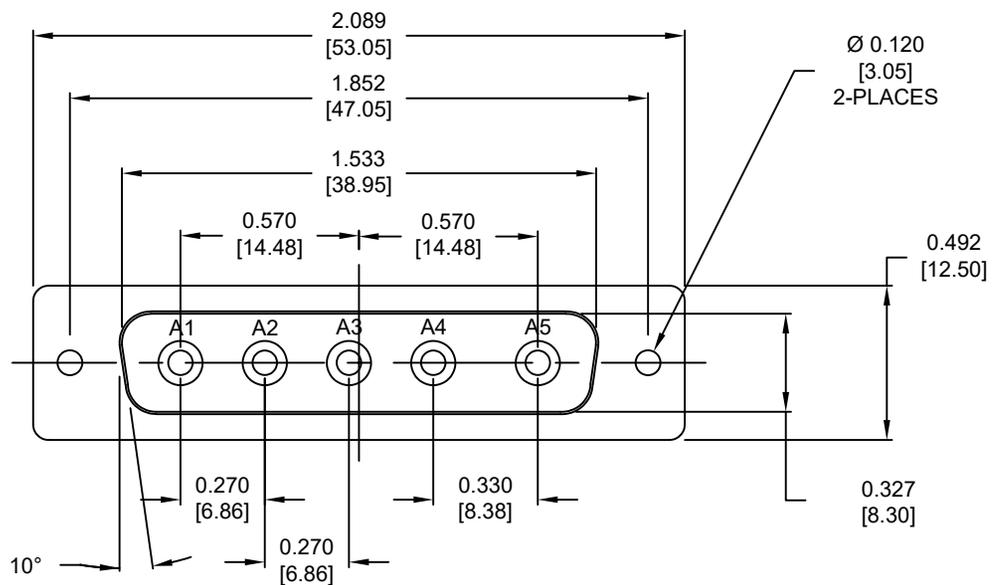
DESCRIPTION: POWER - VERTICAL BOARD - MALE - MACHINED

**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.  
 POWER PINS: 40 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.  
 F08 FLEXIBLE ADHESIVE  
 SEAL: NICKEL PLATED STEEL  
 SHELL: NICKEL PLATED STEEL  
 HARDWARE: NICKEL PLATED BRASS



# 681S5W5103LYYY

- 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

**MEETS IP67 STANDARDS**  
 (SEE PAGE 2 FOR SEALING DETAILS)

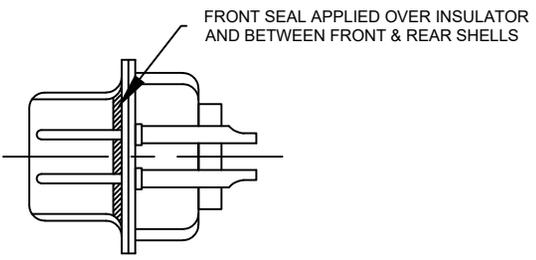
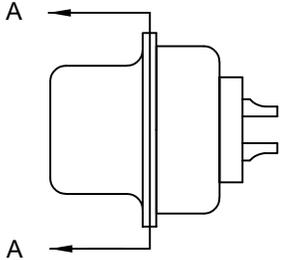
**RoHS COMPLIANT**

UNITS = INCHES [MM] **DO NOT SCALE FROM DRAWING**

	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF NorComp AND SHALL NOT BE REPRODUCED, COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION.	DRAWN: <b>P. JENKINS</b>
		DATE: <b>09/13/2011</b>

	SCALE: NTS	SHEET 1 OF 3	REV 3
	DWG NO. <b>681S5W5103LYYY</b>		

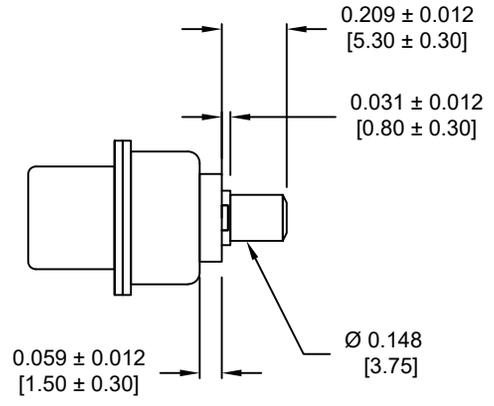
DESCRIPTION: 681 SERIES CONTACTS



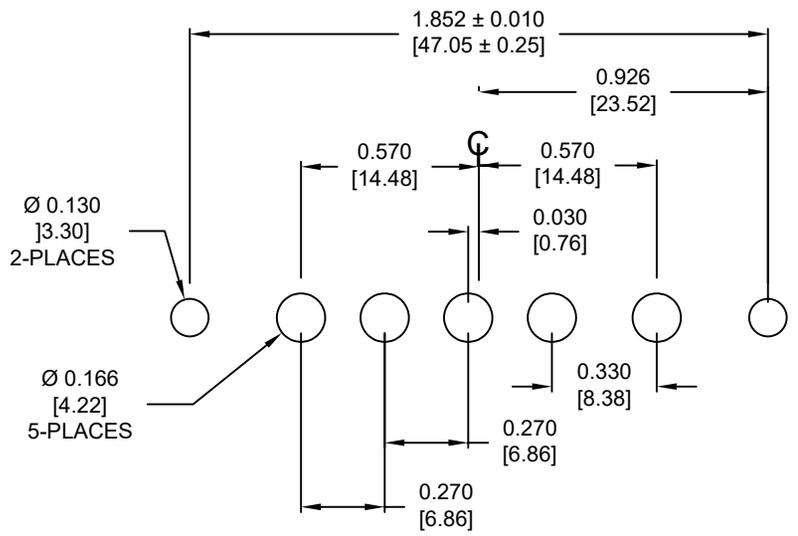
FRONT SEAL APPLIED OVER INSULATOR AND BETWEEN FRONT & REAR SHELLS

DETAIL A-A  
SHOWN FOR REFERENCE ONLY

NOTE: POWER CONTACTS COME PRE-LOADED INTO INSULATORS



POWER CONTACTS



RECOMMENDED PCB LAYOUT  
TOLERANCE ± 0.002 [0.05]

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DATE:  
**09/13/2011**

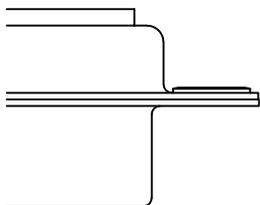
**NorComp**

SCALE: NTS	SHEET 2	OF 3	REV 3
DWG NO.		<b>681S5W5103LYYY</b>	

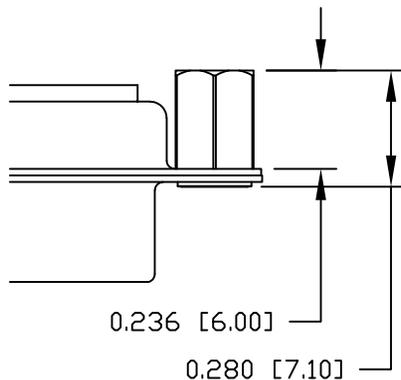
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

TOLERANCE:  
ALL DIMENSIONS ARE ±0.010

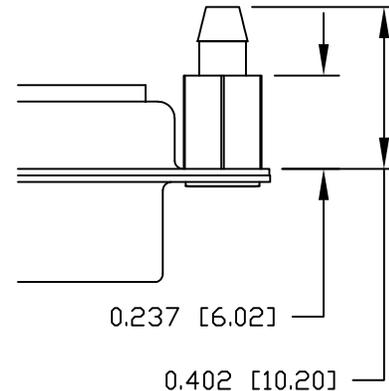
0 ..... NO HARDWARE



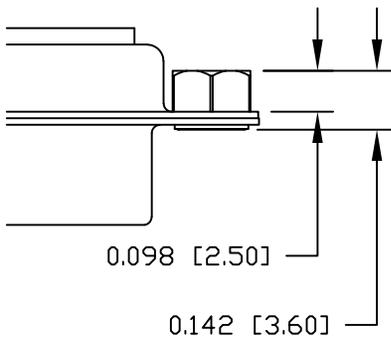
2 ..... 0.236" PCB SIDE



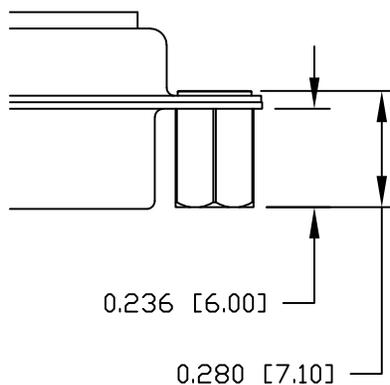
4 ..... 0.237" PCB SIDE



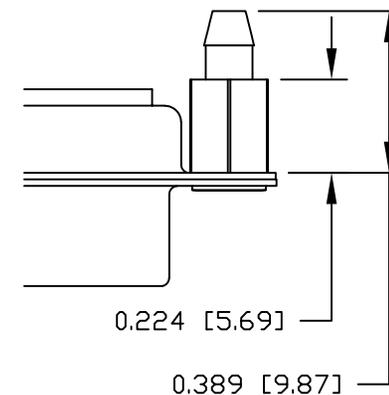
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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SCALE:  
NTS

SHEET 3 OF 3

REV 3

DWG NO. 681S5W5103LYYY