

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

## SPECIFICATIONS:

**ELECTRICAL:**

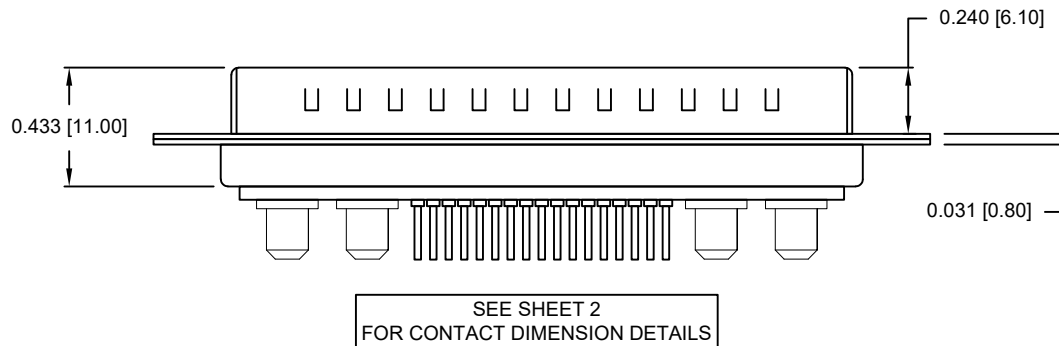
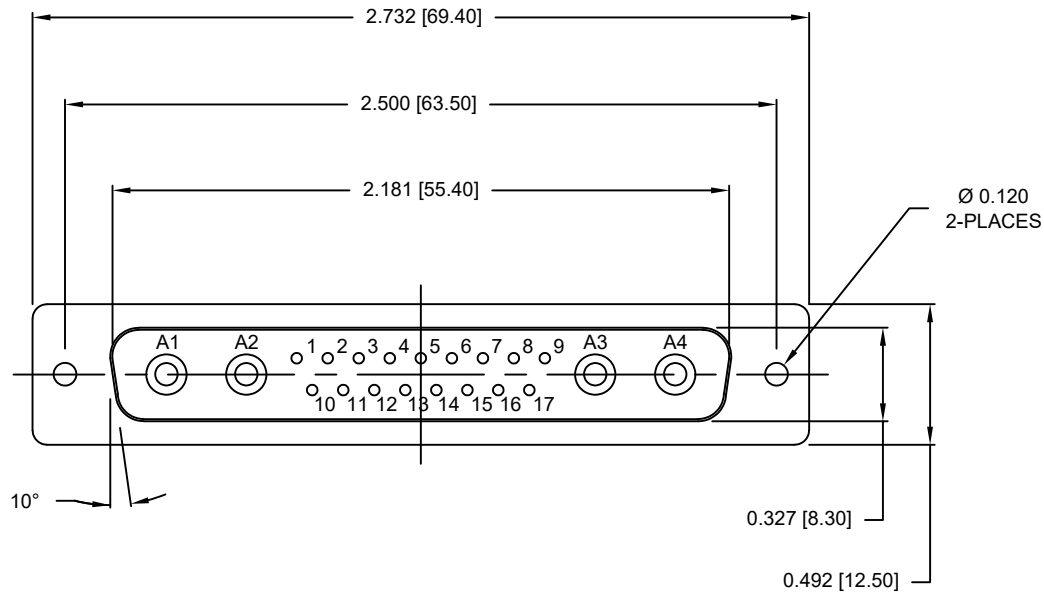
INSULATION RESISTANCE:	5 GOhms MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VAC FOR 1 MIN
WORKING VOLTAGE:	250V
OPERATING TEMPERATURE:	-55°C TO +125°C
POWER CONTACT RESISTANCE:	2.0 mOhms MAX.
SIGNAL CONTACT RESISTANCE:	10 mOhms MAX.
POWER CONTACT AMPERAGE:	SEE P/N KEY
SIGNAL CONTACT AMPERAGE:	5 AMPS

**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 230°C PROCESS TEMP.
SHELL:	NICKEL PLATED STEEL
HARDWARE:	NICKEL PLATED BRASS



681M21WA4PLYYY

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. SIGMON

DATE:  
07/19/2013

UNITS = inches [mm]

DO NOT SCALE FROM DRAWING

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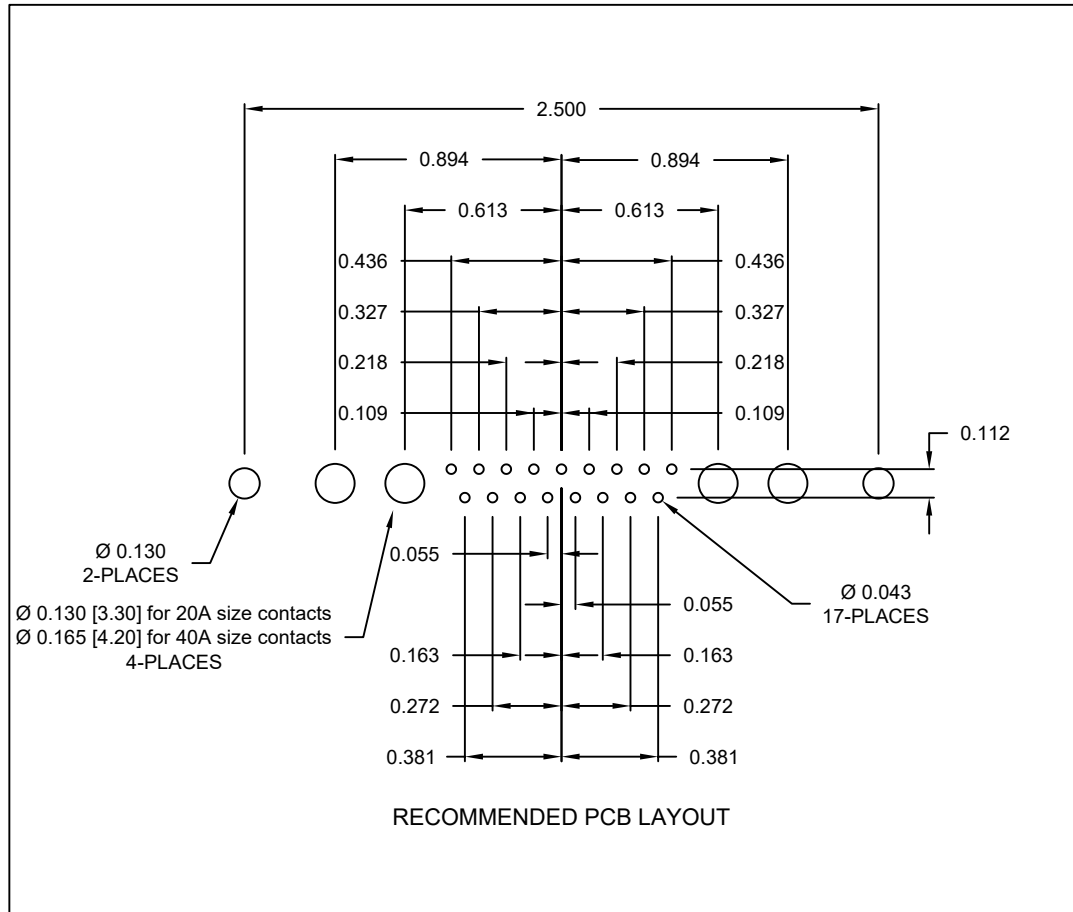
SCALE:  
NTS

SHEET OF  
1 3

REV  
6

DWG NO.

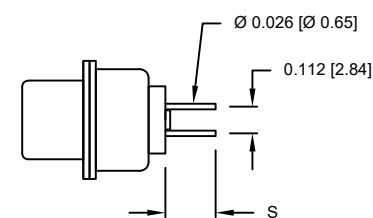
681M21WA4PLYYY



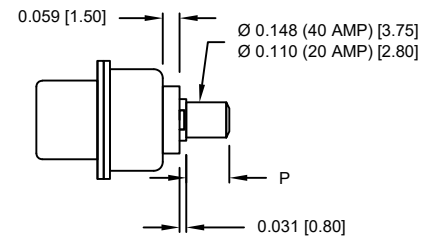
NOTE:  
SIGNAL AND POWER CONTACTS  
COME PRE-LOADED INTO INSULATORS

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

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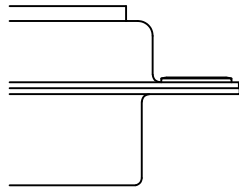
DWG NO.

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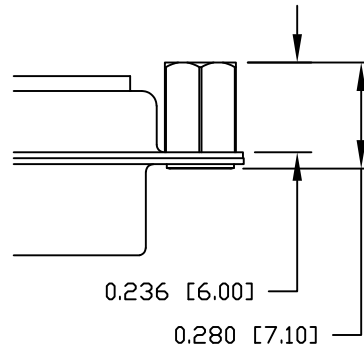
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

TOLERANCE:  
ALL DIMENSIONS ARE  $\pm 0.010$ 

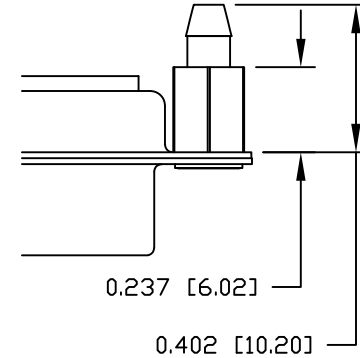
0 ..... NO HARDWARE



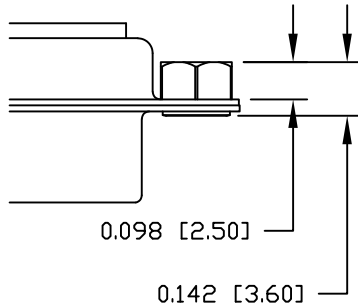
2 ..... 0.236" PCB SIDE



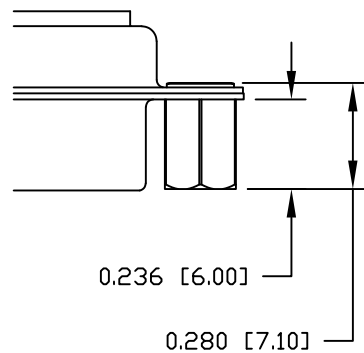
4 ..... 0.237" PCB SIDE



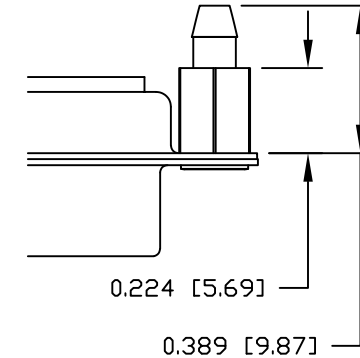
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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SHEET 3 OF 3

REV  
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# Mouser Electronics

Authorized Distributor

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