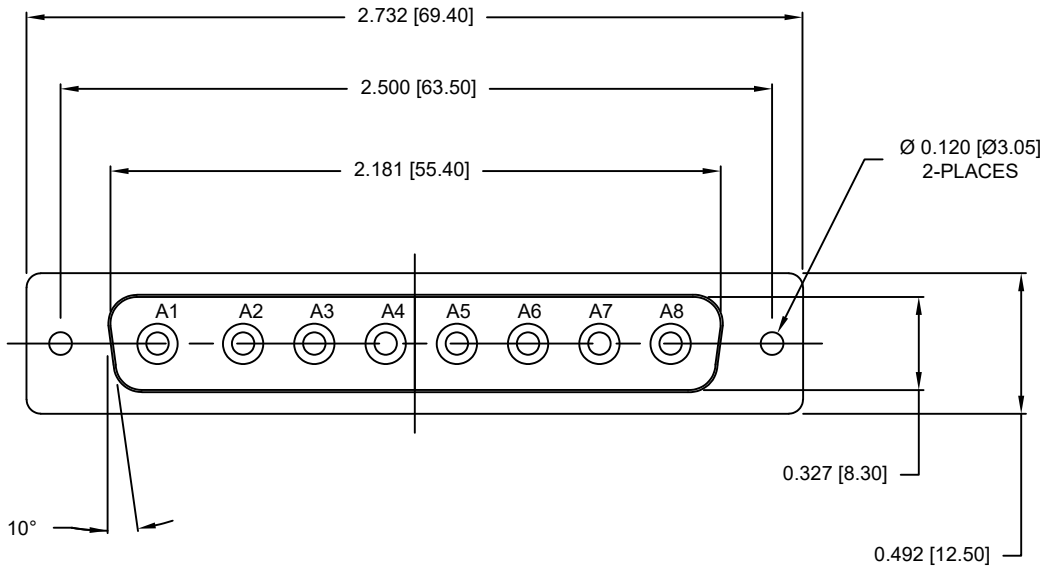
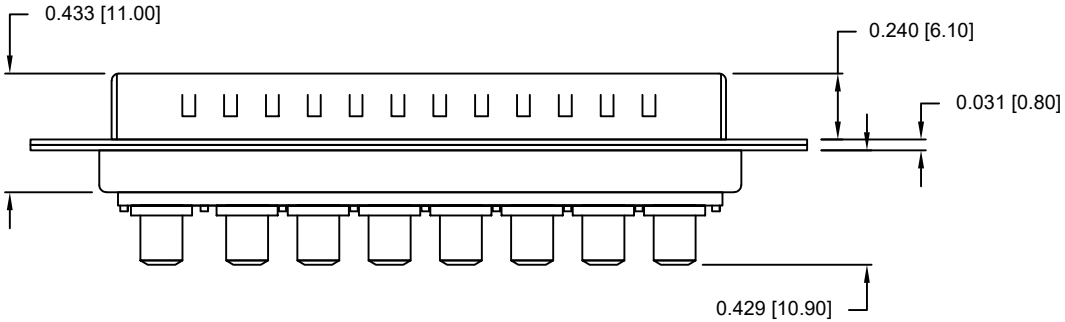
DESCRIPTION: POWER - VERTICAL - MALE - MACHINED





SEE SHEET 2
FOR CONTACT DIMENSION DETAILS

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.
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
HARDWARE:	NICKEL PLATED BRASS

681M8W8103LYYY

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

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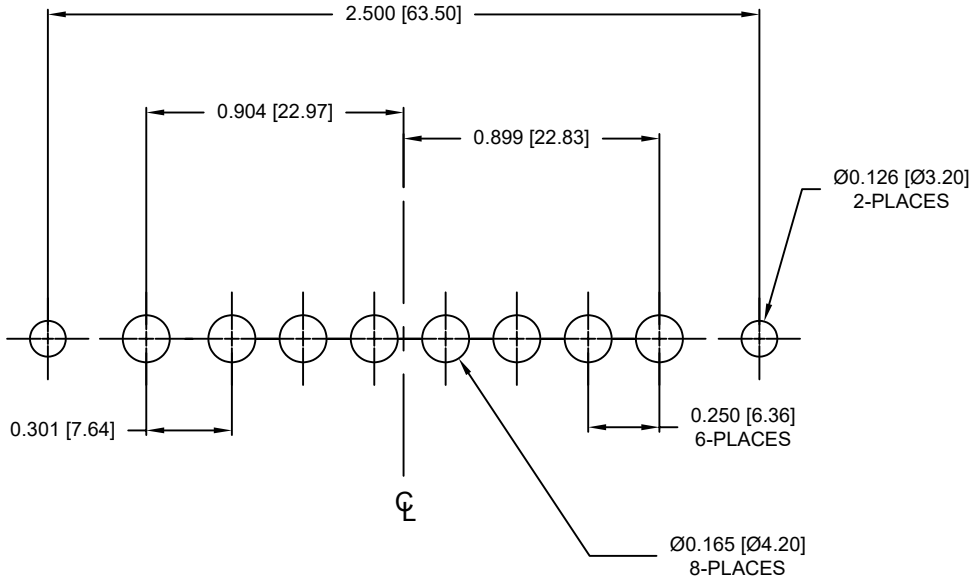
SCALE:	SHEET	OF	REV
NTS	1	3	4

DWG NO. 681M8W8103LYYY

DESCRIPTION: POWER - VERTICAL - MALE - MACHINED

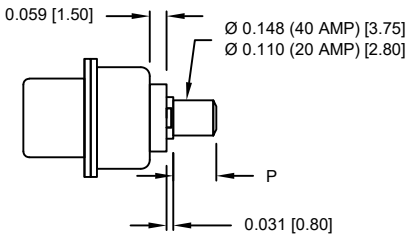


RECOMMENDED PCB LAYOUT

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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P. JENKINS	06/22/2011

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NTS	2	3	4

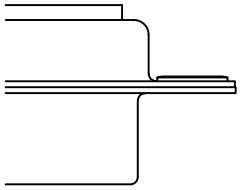
DWG NO. 681M8W8103LYYY

DESCRIPTION: POWER - VERTICAL - MALE - MACHINED

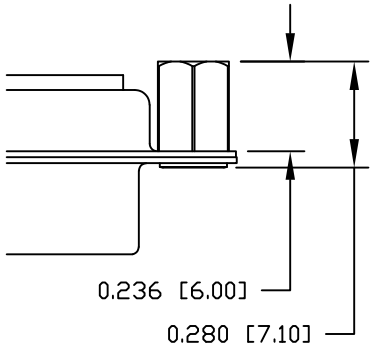
ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

TOLERANCE:
ALL DIMENSIONS ARE ±0.010

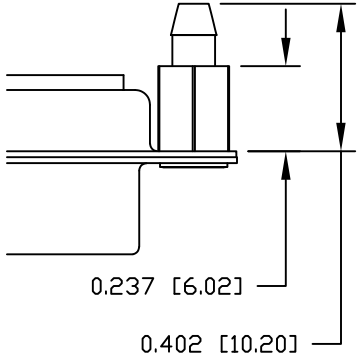
0 ..... NO HARDWARE



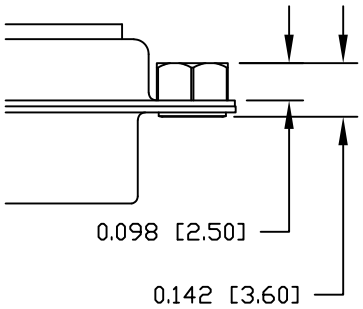
2 ..... 0.236" PCB SIDE



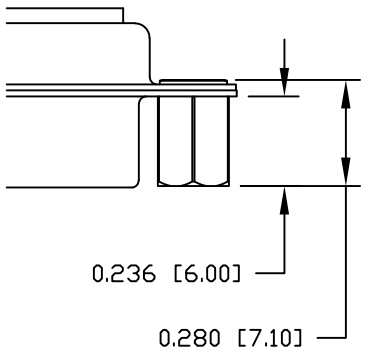
4 ..... 0.237" PCB SIDE



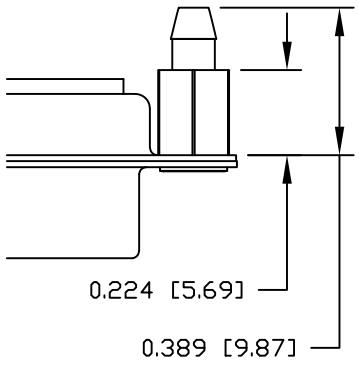
1 ..... 0.098" PCB SIDE



3 ..... 0.236" MATING SIDE



5 ..... 0.224" PCB SIDE



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