

DESCRIPTION: POWER - VERTICAL BOARD - FEMALE

SPECIFICATIONS:

ELECTRICAL:

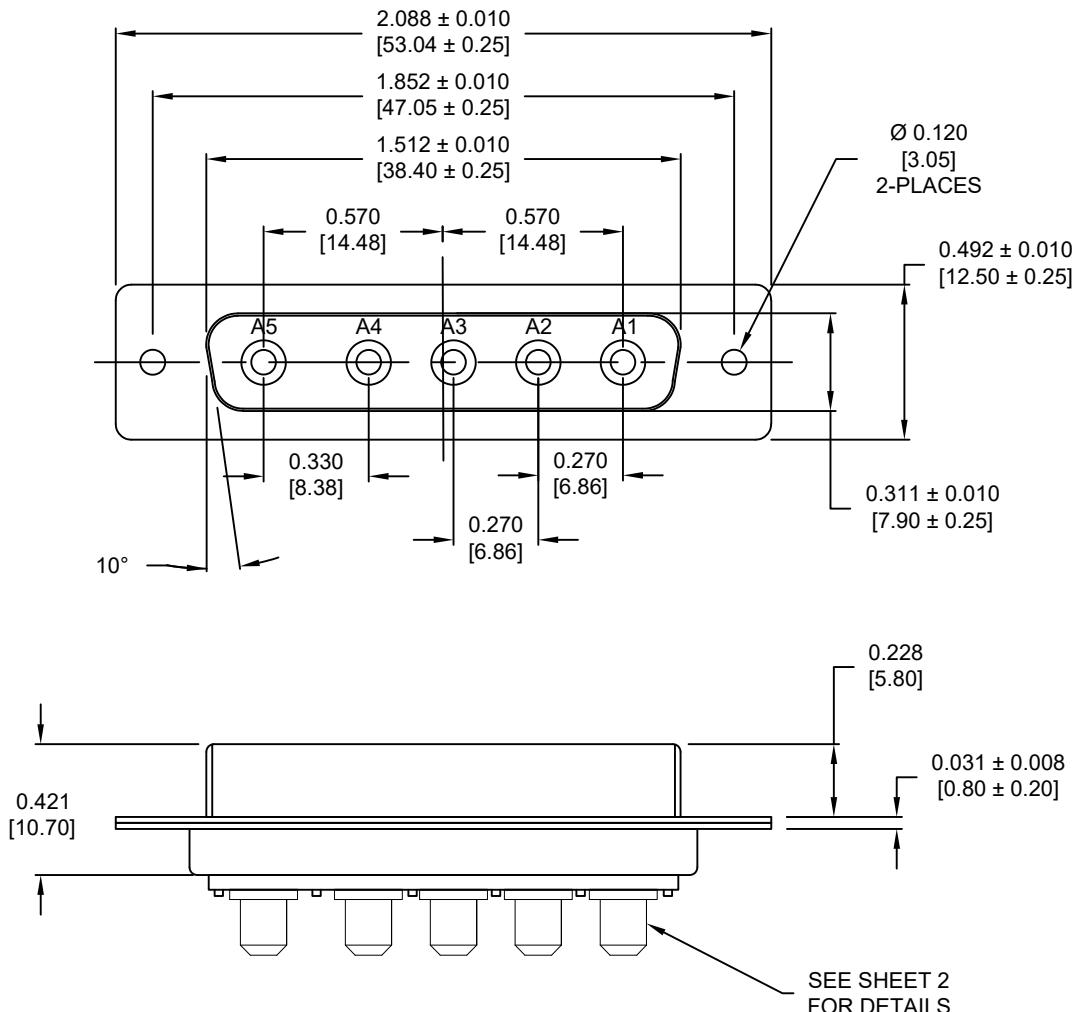
INSULATION RESISTANCE: 5 GΩ MIN.
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VAC FOR 1 MIN
WORKING VOLTAGE: 250V
OPERATING TEMPERATURE: -55°C TO +125°C
POWER CONTACT RESISTANCE: 2.0 mΩ MAX.
POWER PINS: 40 AMPS

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.
SEAL: F04 FLEXIBLE ADHESIVE
SHELL: NICKEL PLATED STEEL
HARDWARE: NICKEL PLATED BRASS



681S5W5203LYYY

0 = 40 AMP
0 = NO HARDWARE
4 = 0.237" 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



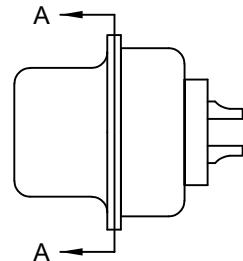
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DATE:
09/13/2011

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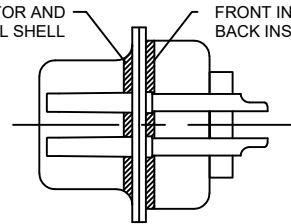
SCALE: NTS	SHEET 1	OF 3	REV 3
DWG NO. 681S5W5203LYYY			

DESCRIPTION: 681 SERIES CONTACTS



FRONT SEAL APPLIED BETWEEN
FRONT INSULATOR AND
FRONT METAL SHELL

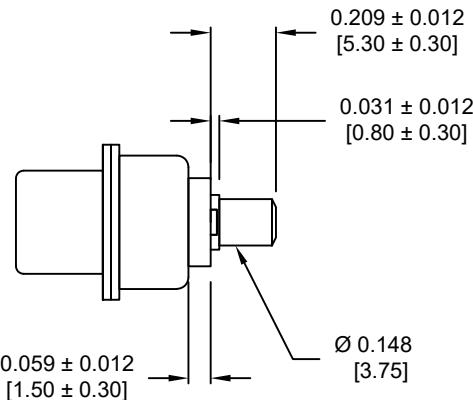
MIDDLE SEAL APPLIED BETWEEN
FRONT INSULATOR AND
BACK INSULATOR



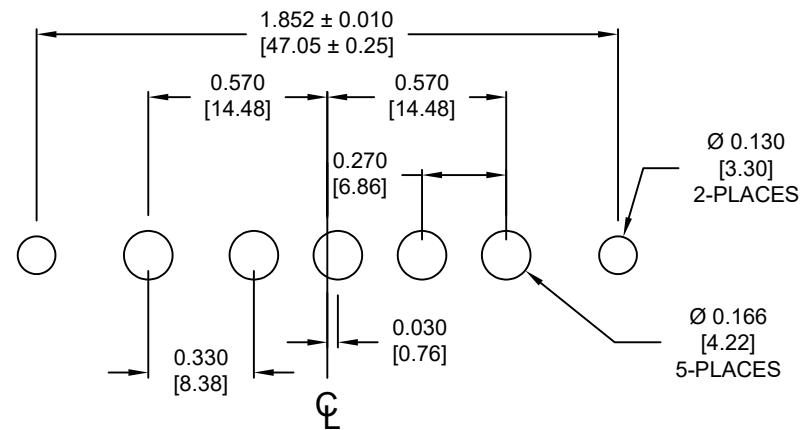
DETAIL A-A

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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SCALE: NTS SHEET 2 OF 3 REV 3
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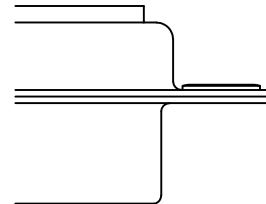
DESCRIPTION: CLINCH NUT HARDWARE

ALL CLINCH-NUTS ARE 4-40 INTERNAL THREADS

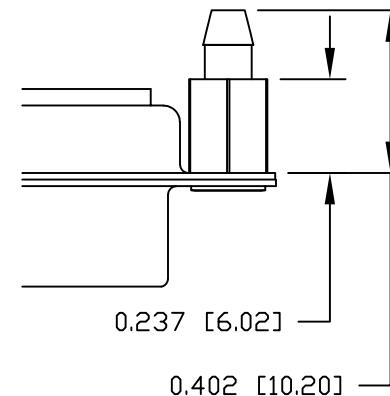
TOLERANCE:

ALL DIMENSIONS ARE ± 0.010

0 NO HARDWARE



4 0.237" PCB SIDE



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