

NOTES:

I. MATERIALS AND FINISHES:

BODY - BRASS, GOLD PL. .000005"[0.127um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS  
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER PL. .000025"[0.64um] MIN. THICK

CONTACT- BRASS, GOLD PL. .000008"[0.2um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS  
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER PL. .000025"[0.64um] MIN. THICK

THIRD ANGLE PROJ.

REVISIONS

| REV | DESCRIPTION                                                                          | DATE      | ECO   | APPR |
|-----|--------------------------------------------------------------------------------------|-----------|-------|------|
| A   | RELEASE TO MFG.                                                                      | 18-Jun-15 |       | AY   |
| B   | TITLE WAS CHANGED, ADDED PART NO. PSMP-MSLD-PCTIR<br>ADDED RECOMMENDED MOUNTING HOLE | 03-Dec-15 | 50842 | SW   |
| C   | PLATING OF BODY WAS CHANGED\RD-DMI6042101TI                                          | 5/16/16   | 00781 | SH   |

1. MATERIALS AND FINISHES:

BODY - BRASS, GOLD PL. .000005"[0.127um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS  
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER PL..000025"[0.64um ]MIN. THICK  
CONTACT- BRASS, GOLD PL. .000008"[0.2um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS  
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER PL..000025"[0.64um] MIN. THICK.  
INSULATOR - LCP

2. ELECTRICAL:

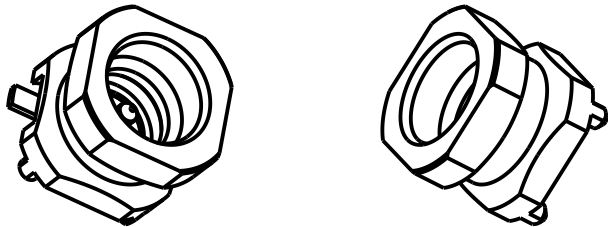
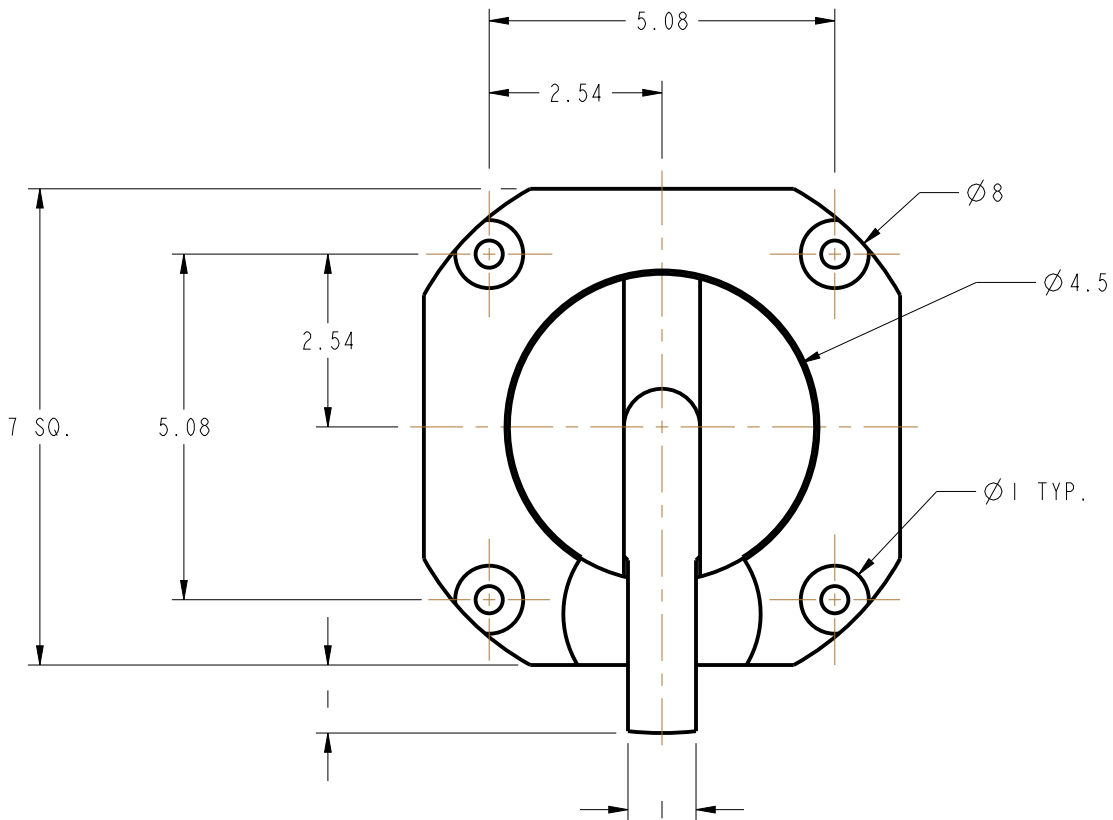
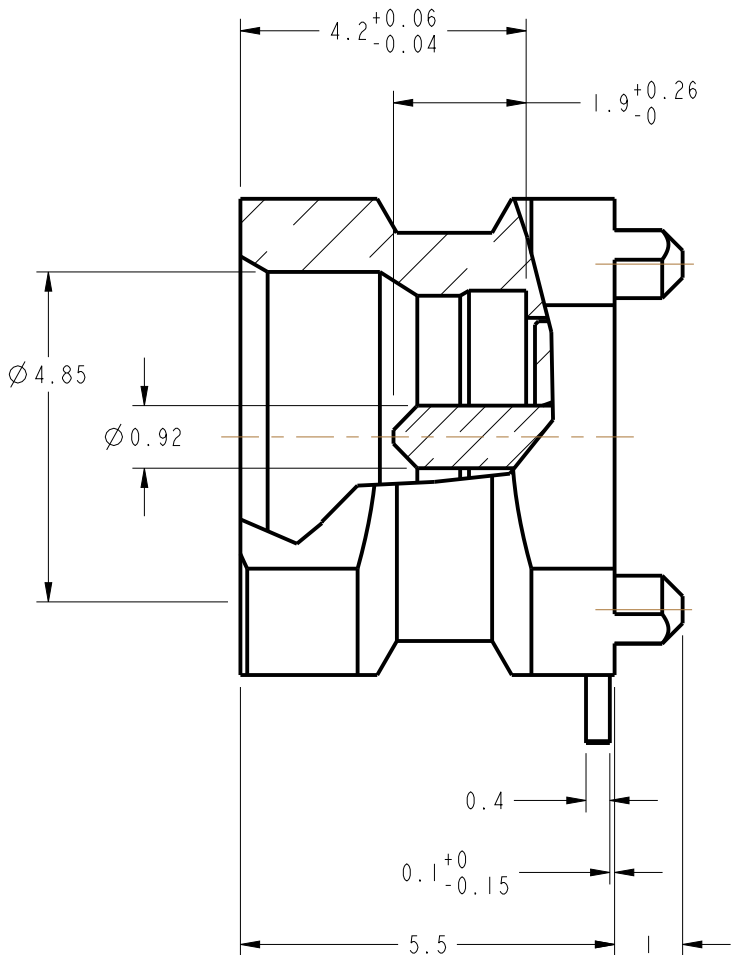
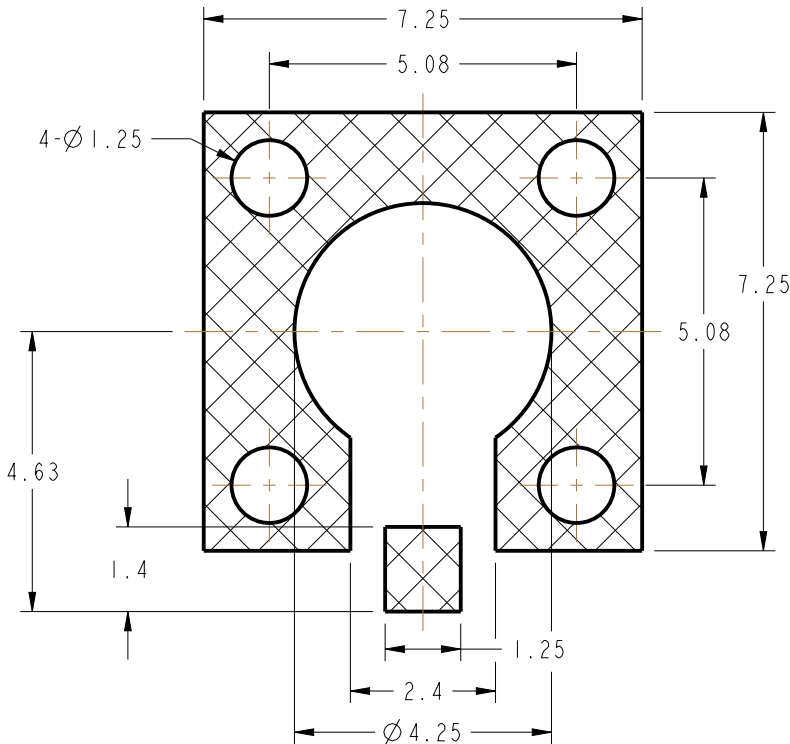
A. IMPEDANCE: 50 OHM  
B. FREQUENCY RANGE: DC-10 GHz  
C. RETURN LOSS: 30 dB MIN.@ DC-4 GHz  
25 dB MIN.@ 4-6 GHz

D. INSERTION LOSS: 0.03X√f(GHz) dB MAX.

E. INSULATION RESISTANCE: 5 GΩ MIN.  
F. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN.  
G. POWER HANDLING: 200 W MAX. @ 2.2 GHz AT 20°C, SEA LEVEL  
H. INTERMODULATION(3rd ORDER): 160 dBc MIN. @ (2X43 dBm)

3. MECHANICAL:

A. MATING CYCLES: 100 MIN.  
B. ENGAGEMENT FORCE: 45 N MAX  
C. DISENGAGEMENT FORCE: 15 N MIN  
D. INNER CONTACT RETENTION FORCE: 7 N MIN  
E. TEMPERATURE RANGE: -65° C TO 165° C



SCALE 3.000

**CUSTOMER OUTLINE DRAWING**  
ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

|                                                                                                                                                               |          |                                                                       |                     |                                                                                                |               |                                     |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------|---------------|-------------------------------------|--------------------------|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:<br><0.5mm ± 0.05mm 0.5 - 6mm ± 0.1mm 6 - 30mm ± 0.2mm 30 - 120mm ± 0.3mm ANGLES ± 1° | MATERIAL | DRAWN<br>TANGOR                                                       | DATE<br>26-Apr-16   | TITLE<br>POWER-SMP<br>STRAIGHT MALE FOR PCB<br>LIMITED DETENT<br>SCALE: 6.0:1.0   SHEET 2 OF 2 |               | Amphenol RF<br>www.amphenolrf.com   |                          |
|                                                                                                                                                               |          | ENGINEER<br>RICKSON                                                   | DATE<br>26-Apr-16   |                                                                                                |               | DRAWING NO. PSMP1251A2-8GPAP8GPA-50 |                          |
|                                                                                                                                                               |          | REFERENCE<br>EAR 6577<br>PSMP1251D1-001-8GPAP8GPA-50<br>119S103-40ML5 | APPROVED<br>S.HSIEH | DATE<br>26-Apr-16                                                                              | DWG SIZE<br>B | REV<br>C                            | ITEM NO. 671251ABR002C5F |
|                                                                                                                                                               |          | FINISH                                                                | CAD FILE            |                                                                                                |               |                                     | PART NO. PSMP-MSLD-PCTIR |