

NOTES:

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

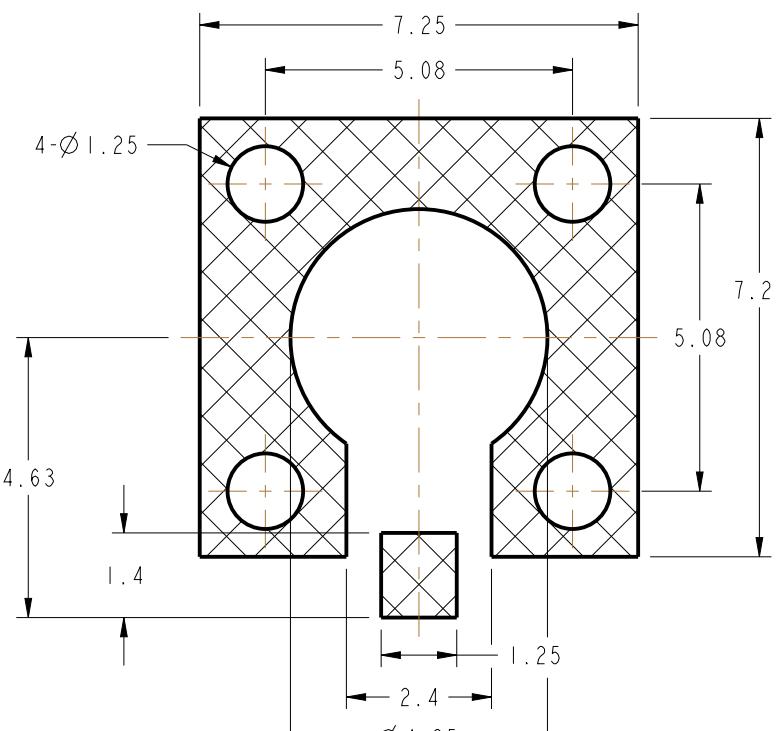
2. ELECTRICAL:

- 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: $0.03 \times \sqrt{f(\text{GHz})}$ dB MAX.

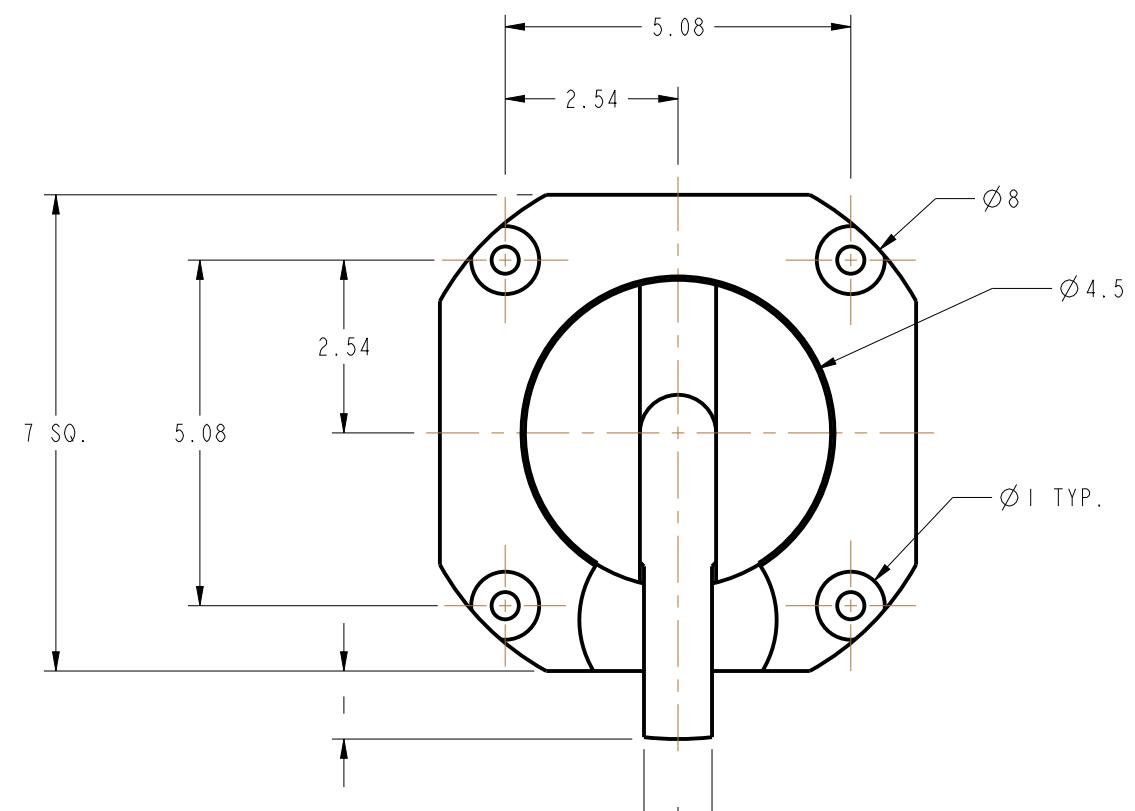
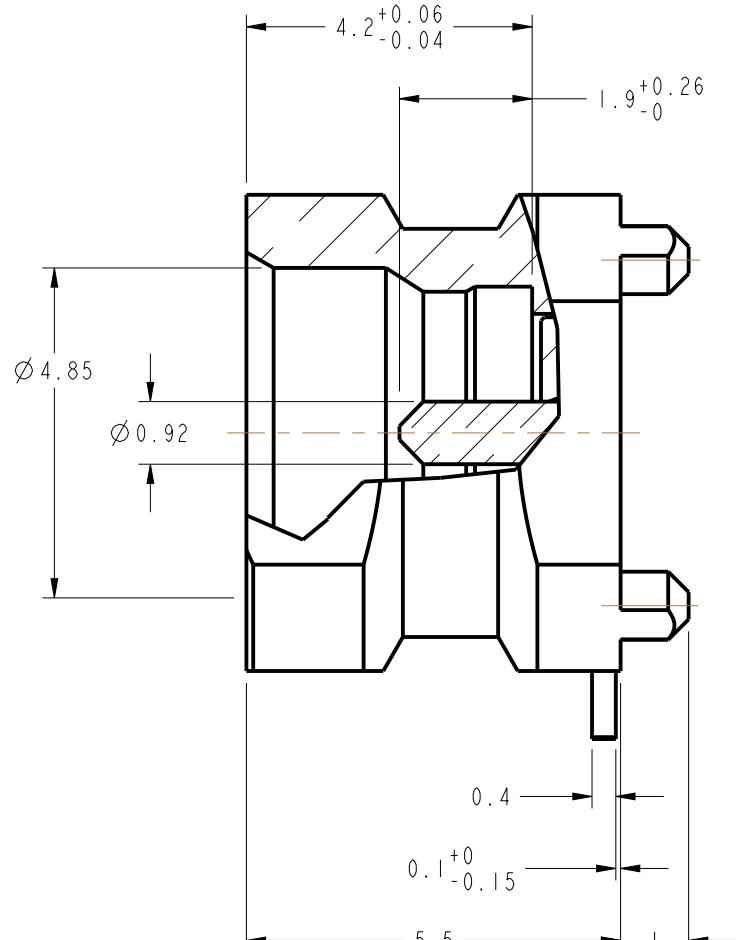
- E. INSULATION RESISTANCE: 5 GΩ MIN.
- F. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN.
- G. POWER HANDLING: 200 W MAX. @ 2.2 GHz AT 20°C, SEA LEVEL
- H. INTERMODULATION(3rd ORDER): 160 dBc MIN. @ (2X43 dBm)

3. MECHANICAL:

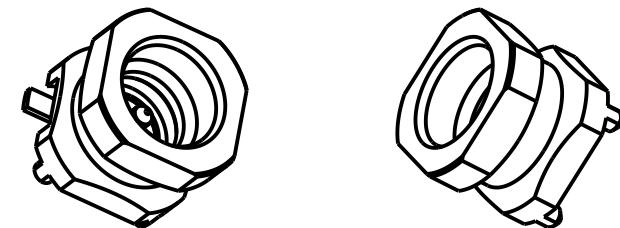
- A. MATING CYCLES: 100 MIN.
- B. ENGAGEMENT FORCE: 45 N MAX
- C. DISENGAGEMENT FORCE: 15 N MIN
- D. INNER CONTACT RETENTION FORCE: 7 N MIN
- E. TEMPERATURE RANGE: -65°C TO 165°C



RECOMMENDED MOUNTING HOLE



SCALE 3.000



CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:
 <0.5mm 0.5 - 6mm 6 - 30mm 30 - 120mm ANGLES
 ± 0.05mm ± 0.1mm ± 0.2mm ± 0.3mm ± 1°

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MATERIAL	DRAWN TANGOR	DATE 26-Apr-16	TITLE POWER-SMP STRAIGHT MALE FOR PCB LIMITED DETENT	DRAWING NO. PSMP1251A2-8GPAP8GPA-50	Amphenol RF www.amphenolrf.com
	ENGINEER RICKSON	DATE 26-Apr-16			
REFERENCE EAR 6577 PSMP1251D1-001-8GPAP8GPA-50 119S103-40ML5	APPROVED S.HSIEH	DATE 26-Apr-16	SCALE: 6.0:1.0 SHEET 2 OF 2	ITEM NO. 671251ABR002C5F	PART NO. PSMP-MSLD-PCTIR
	CAD FILE	DWG SIZE B			
FINISH		REV C			