

NOTES:

1. MATERIALS AND FINISHES:

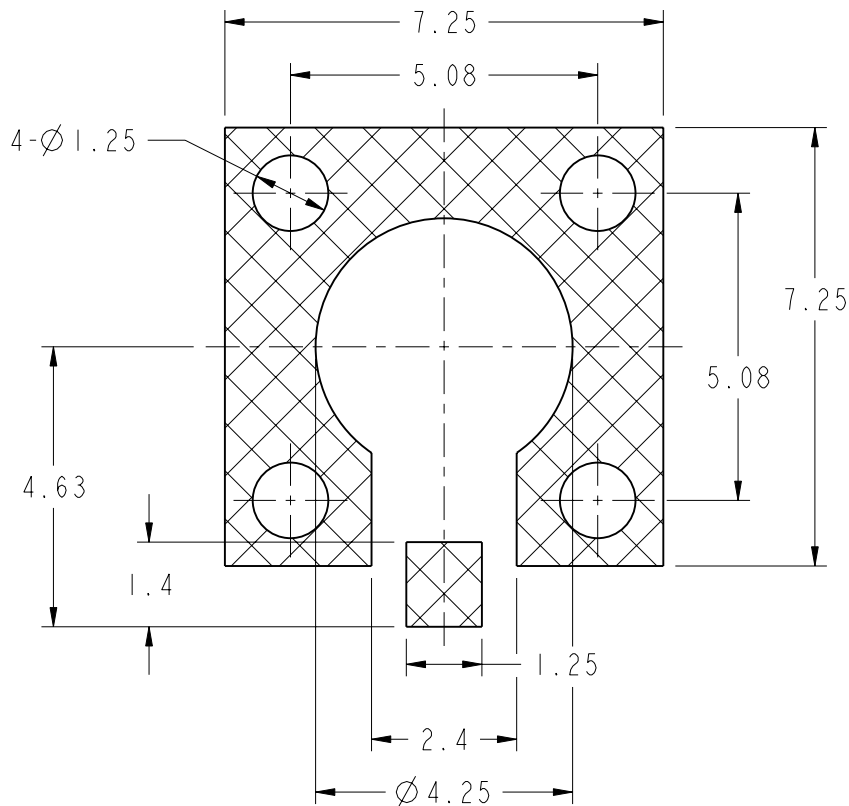
BODY - BRASS, GOLD PL. .000008"[0.2um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER PL..000025"[0.64um] MIN. THICK
CONTACT- BRASS, GOLD PL. .000008"[0.2um] THICK OVER PHOSPHORUS CONTENT 9%~13% ELECTROLESS
NICKEL PL. .000100"[2.5um] MIN THICK OVER COPPER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

2. ELECTRICAL:

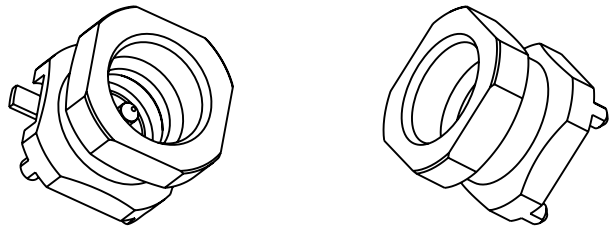
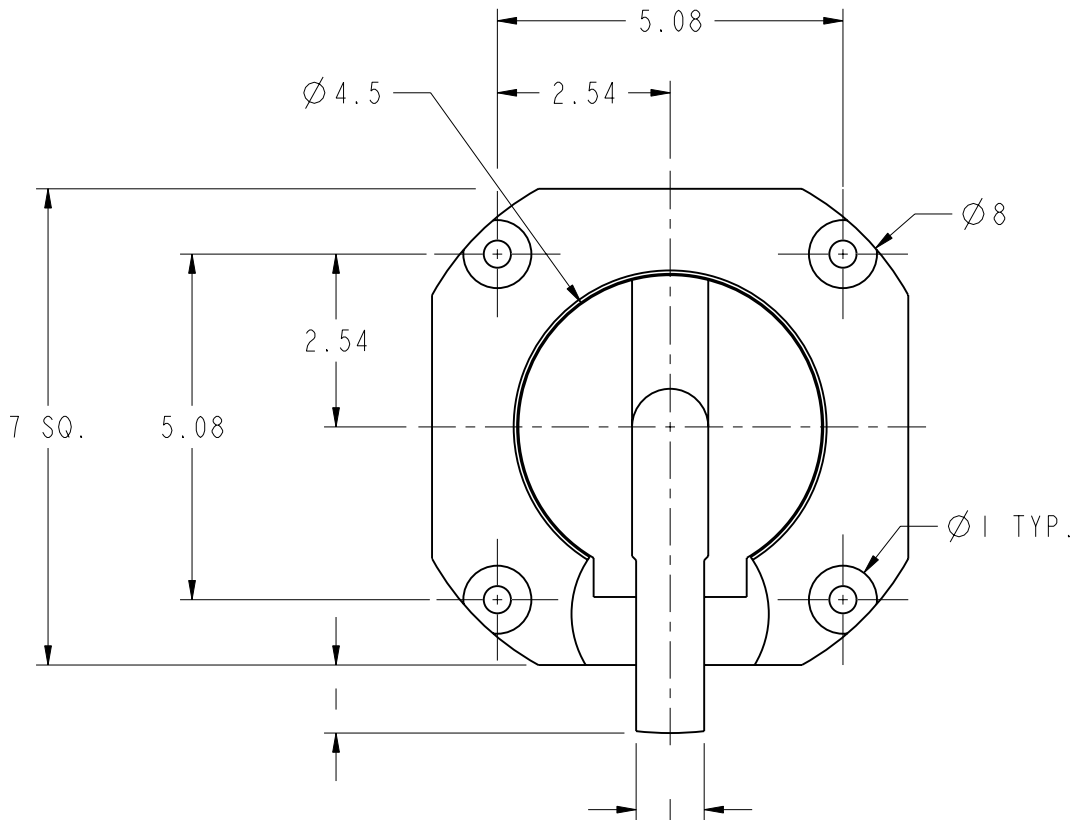
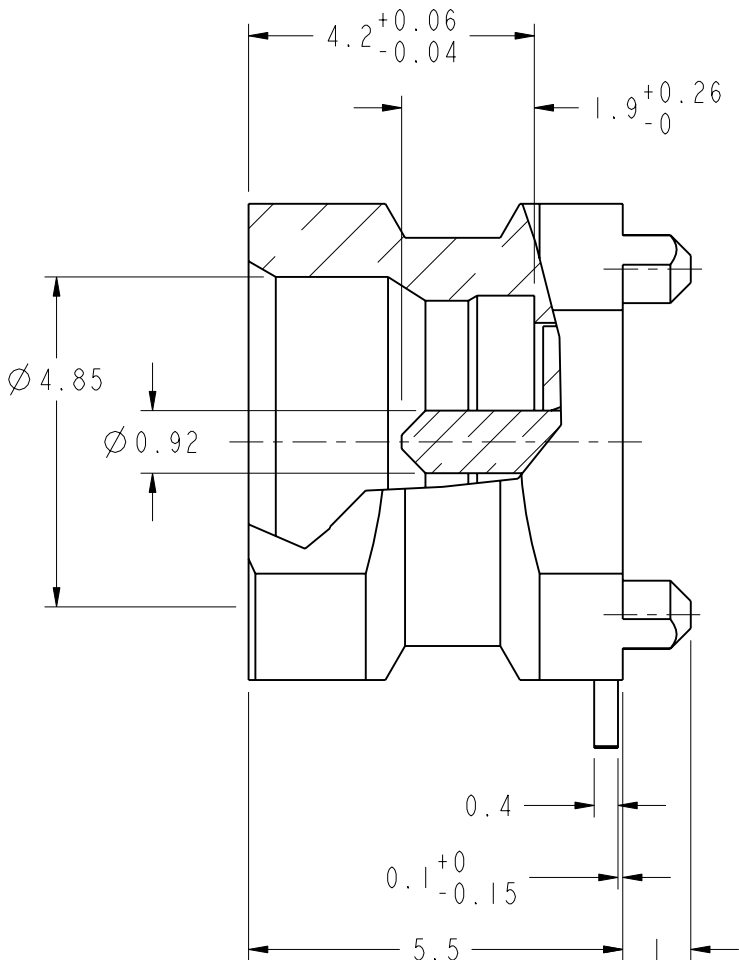
A. IMPEDANCE:50 OHM
B. FREQUENCY RANGE: DC-10 GHz
C. RETURN LOSS(VSWR): 30 dB MIN.@ DC-4 GHz
25 dB MIN.@ 4-6 GHz
D. INSERTION LOSS: 0.03X $\sqrt{f(\text{GHz})}$ dB MAX.
E. INSULATION RESISTANCE:5 G Ω MIN.
F. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN.
G. POWER HANDLING:200 W MAX.@ 2.2 GHz AT 20°C, SEA LEVEL
H. INTERMODULATION(3rd order):160 dBc MIN.@ (2X43dBm)

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 ±0.05mm 0.5 - 6mm ±0.1mm 6 - 30mm ±0.2mm 30 - 120mm ±0.3mm ANGLES ±1°

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MATERIAL

DRAWN
STAMN

DATE
03-Dec-15

ENGINEER
RICKSON

DATE
19-Jun-15

REFERENCE
EAR 6577
PSMPI251DI-001-8GPAP8GPA-50
119S103-40ML5

APPROVED
RICKSON

DATE
03-Dec-15

CAD FILE

FINISH

TITLE
POWER-SMP
STRAIGHT MALE FOR PCB
LIMITED DETENT

SCALE: 6.0:1.0 SHEET 2 OF 2

DWG SIZE
B

REV
B

Amphenol RF

www.amphenolrf.com

DRAWING NO.PSMPI251A2-8GPAP8GPA-50

ITEM NO. 671251ABR002C5F

PART NO. PSMP-MSLD-PCTIR