

NOTES:

THIRD ANGLE PROJ.

REVISIONS

1. MATERIALS AND FINISHES:

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

2. ELECTRICAL:

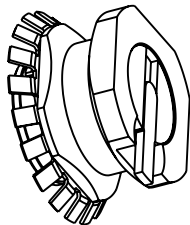
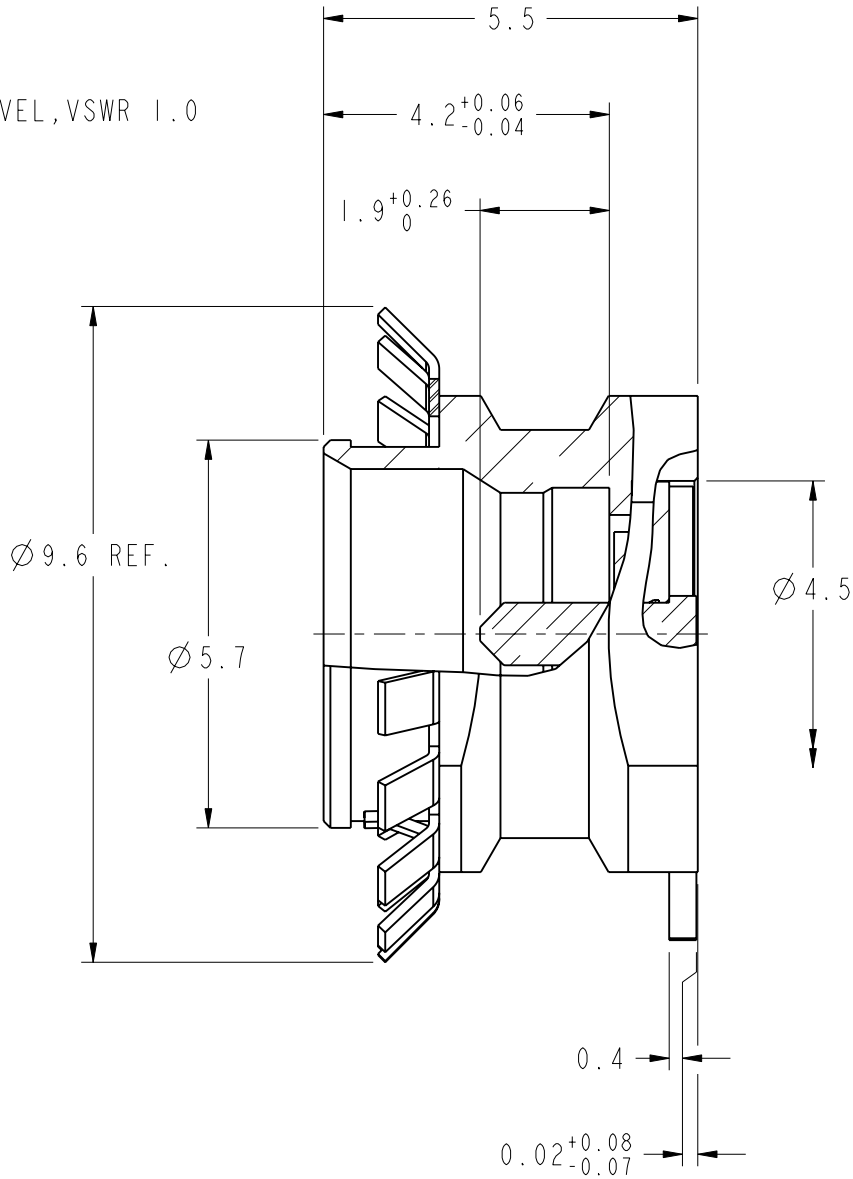
- A. IMPEDANCE:50 OHM  
B. FREQUENCY RANGE: DC-10 GHz  
C. RETURN LOSS: 30 dB MIN.@ DC-4 GHz  
25 dB MIN.@ 4-6 GHz  
D. INSERTION LOSS:  $0.03X\sqrt{f(\text{GHz})}$  dB MAX.  
E. INSULATION RESISTANCE:5 GΩ MIN.  
F. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN.  
G. POWER HANDLING:200 W MAX.@ 2.2 GHz AT 20°C, SEA LEVEL,VSWR 1.0  
H. INTERMODULATION(3rd order):160 dBc MIN.@ (2X43dBm)

3. MECHANICAL:

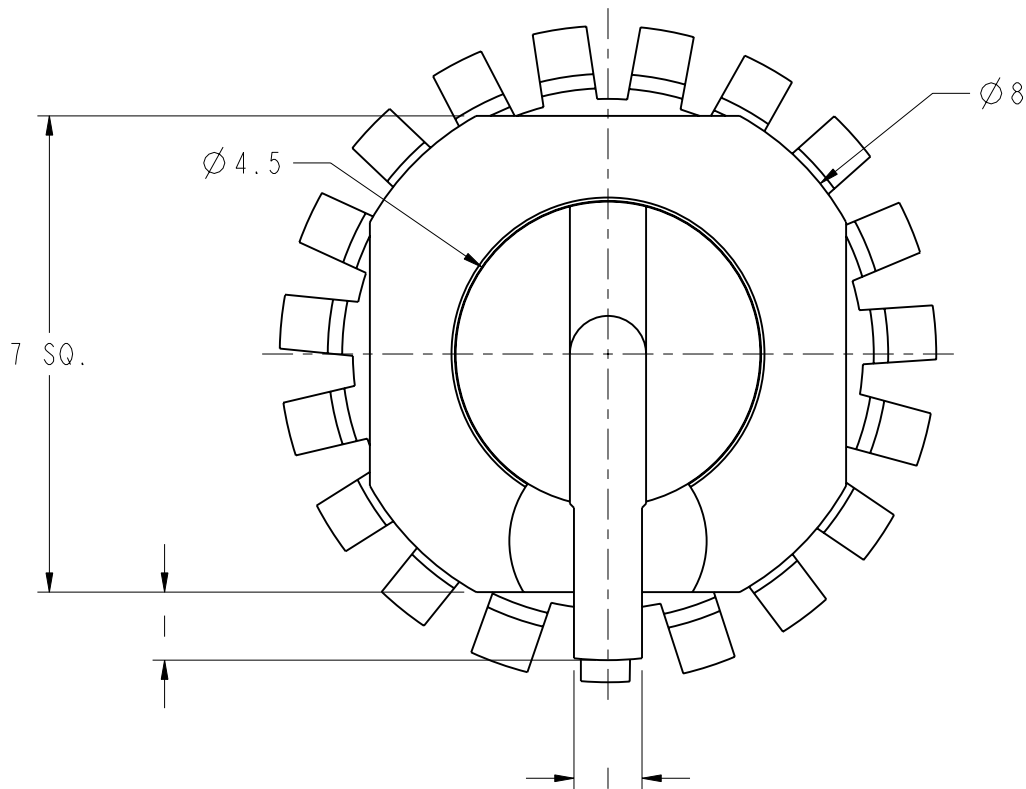
- A. MATING CYCLES:100 MIN.  
B. ENGAGEMENT FORCE: 10 N MAX  
C. DISENGAGEMENT FORCE: 2.2 N MIN  
D. INNER CONTACT RETENTION FORCE: 7 N MIN  
E. TEMPERATURE RANGE: -65° C TO 165° C

4. ALLOWABLE COMPRESSION OF EMI RING: 0.4 MM MAX.

5. ALL MATERIALS MUST BE "RoHS" COMPLIANT.



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                               | DATE | TITLE<br>POWER-SMP<br>STRAIGHT MALE FOR PCB<br>LIMITED DETENT |          | Amphenol RF<br>Danbury CT USA, Tainan, Taiwan, Shenzhen, China<br>www.amphenolrf.com |                                         |
|                                         | ENGINEER                            | DATE |                                                               |          |                                                                                      |                                         |
| REFERENCE<br>EAR 06666<br>119S106-40ML5 | APPROVED                            | DATE | SCALE: 10.0:1.0   SHEET 2 OF 2                                |          |                                                                                      | DRAWING NO. PSMPI251DI-002-8GPAP8GPA-50 |
|                                         | CAD FILE                            |      |                                                               | DWG SIZE | REV                                                                                  | ITEM NO. 671251ABTA12C5F                |
| FINISH                                  | I:\PSMP\PSMPI251DI-002-8GPAP8GPA-50 |      | B                                                             |          | A                                                                                    | PART NO. PSMP-MSLD-PCSEM                |