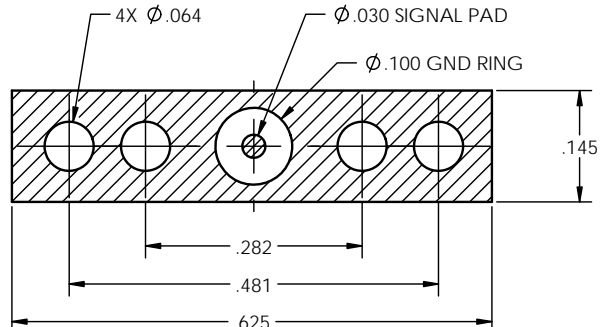
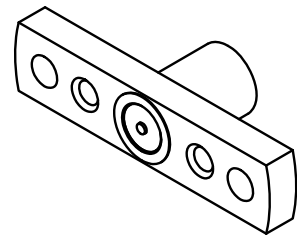
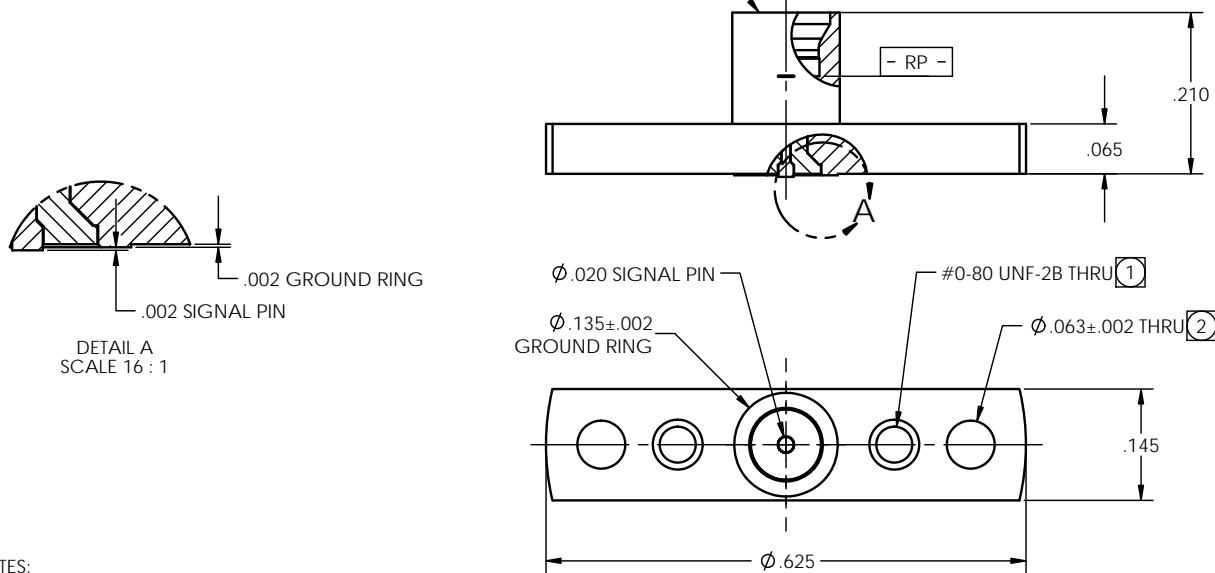
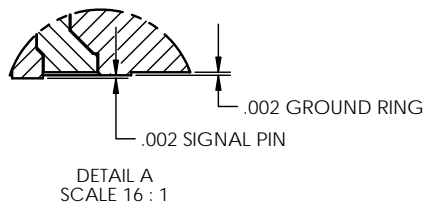


REVISIONS			
REV.	DESCRIPTION	DATE	BY
-	ECO 31272 (INITIAL RELEASE)	08/31/16	PV

SMPM MALE INTERFACE  
PER MIL-STD-348



RECOMMENDED PCB LAYOUT



NOTES:  
OPTIONAL MOUNTING PATTERN:  
① ASSEMBLE FROM REAR SIDE OF PCB.  
② ASSEMBLE FROM FRONT SIDE OF PCB.

**MATERIAL(S):**      **ELECTRICAL(S):**      **MECHANICAL(S):**      **ENVIRONMENTAL(S):**

Body  
303 SST per ASTM A-582  
Center Conductor  
BeCu Alloy per ASTM B-196  
Insulator  
Peek 1000

Impedance: 50 Ohms Nominal  
Frequency Range: DC to 40 GHz  
VSWR: 1.15:1 to 26.5 GHz  
1.25:1 to 40 GHz  
Insertion Loss: .12 x SQRT(f (GHz))  
Working Voltage: 325 Vrms max @ Sea Level  
Dielectric Withstand Voltage: 500 Vrms min  
RF HiPot Voltage: 325 Vrms min. @ 5MHz  
Corona Level: 190 Vrms @ 70,000 ft  
Insulation Resistance: 5000 MegOhms min  
RF Leakage: -(65 - f(GHz)) dB  
Contact Resistance:  
Center: 6.0 MilliOhms max  
Outer: 2.0 MilliOhms max

Interface Dimensions:  
Interface per MIL-STD-348  
Connector Durability:  
Detent: 100 cycles  
Non-detent: 500 cycles  
Force to Engage:  
Detent: 6.5 lbs max  
Non-Detent: 2.5 lbs max  
Force to Disengage:  
Detent: 4 lbs min  
Non-Detent: 1.5 lbs min  
Center Contact Retention:  
N/A

Temperature Range: -55°C to +165°C  
Thermal Shock:  
MIL-STD-202, Method 107, Test Condition B  
Moisture Resistance:  
MIL-STD-202, Method 106, Insulation resistance  
at least 200 MegaOhms within 5 minutes after  
removal from humidity.  
Corrosion:  
MIL-STD-202, Method 101, Test Condition B  
Vibration:  
MIL-STD-202, Method 204, Test Condition D  
Shock:  
MIL-STD-202, Method 213, Test Condition I

**FINISH(ES):**

Body  
Passivate per ASTM A-967  
Center Conductor:  
Gold plate per ASTM B-488 over Nickel plate per SAE AMS-QQ-N-290

APPLICABLE CARLISLE IT DOCUMENTS		
WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

TOLERANCES AND NOTES	
EXCEPT AS NOTED	
DIMENSIONS ARE IN INCHES.	
LINEAR	XX ± .015
ANGULAR	± 1/2°
FRACTION	± 1/32
1. MACHINE FINISH: √RMS	
2. BREAK ALL SHARP EDGES .005 MAX.	
3. MACHINED FILLETS, .005 MAX.	
4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.	
5. MACHINED DIMETERS CONCENTRIC WITHIN .002 TLR.	
6. DIMENSIONS TO BE MET BEFORE PLATING.	
7. CHAMFER ALL THREADS 45°.	
8. THREADS PER H-28	
9. REMOVE FRAVED EDGES ON TEFLON.	
10. REMOVE ALL BURRS.	

MATERIAL		SPECIFICATION		PROCUREMENT	
APPROVAL INITIALS	DATE	TITLE		SHEET 1 OF 1	
DRAWN BY PV	01.19.16	SSMP®, MALE, DETENT, FIELD REPLACEABLE, FLANGE MOUNT		1	
CHECKED BY -	-	SCALE	SUB-DIRECTORY/OUTLINE/	DRAWING NO.	
TEST ENGR -	-	8:1		30990	
QUALITY -	-	DESIGN ENGR P.V.	09.09.16	OL_3R89961610	
DESIGN ENGR K.M.	09.09.16	MFG. ENGR		REV.	
ECO APPRV -	-			-	

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