

# PRODUCT DATA DRAWING

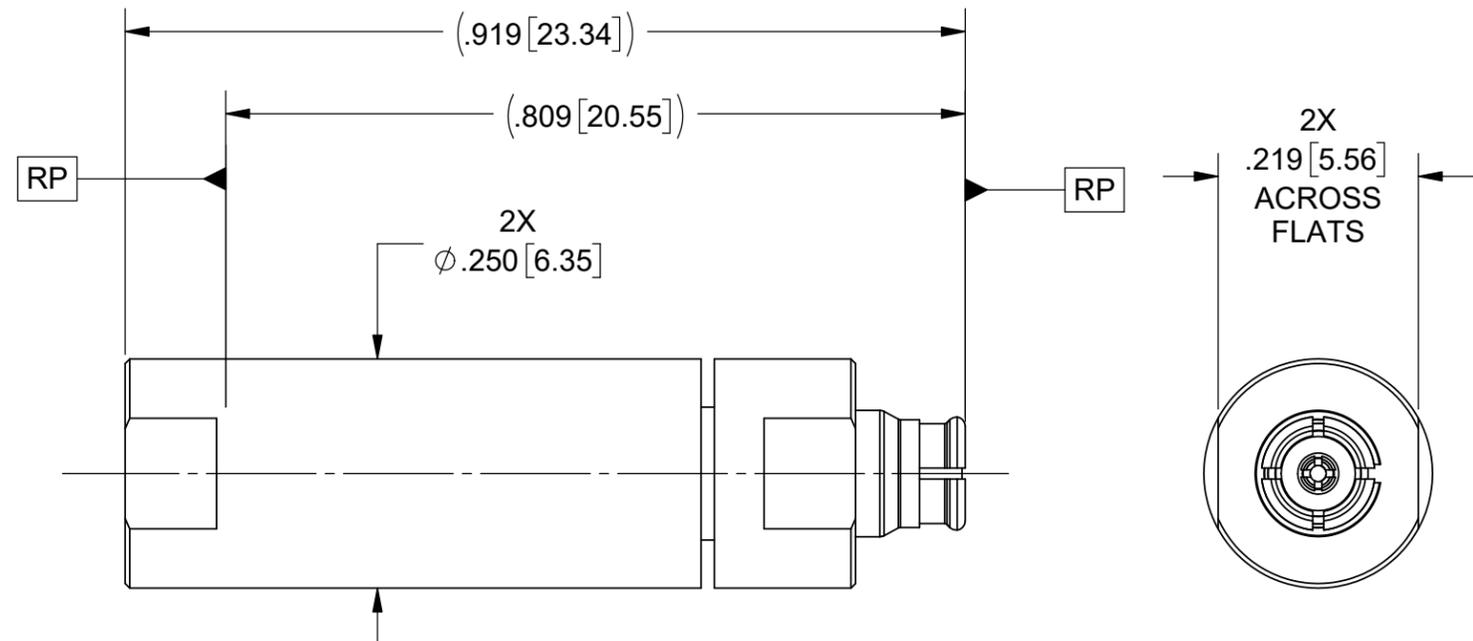
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	DCN 53994	3/24	SEE PDM

## MATERIAL:

**MALE BODY & INSERTS:** STAINLESS STEEL PER AMS-5640, ALLOY UNS S30300, TYPE 1  
**FEMALE BODY, ANTI-ROCK RING, SLEEVE, & CONTACTS:** BERYLLIUM COPPER PER ASTM B196, ALLOY No. UNS C17300, TD04  
**BEADS:** ULTEM 1000 PER ASTM D5205  
**INSULATOR:** PTFE PER ASTM D1710, TYPE I, GRADE 1, CLASS B  
**RESISTOR ELEMENT:** ALUMINUM NITRIDE SUBSTRATE WITH TANTALUM NITRIDE RESISTOR GOLD PLATED TERMINALS  
**BELLOWS SPRINGS:** ELECTRO-DEPOSITED GOLD OVER NICKEL  
**FINISH:**  
**MALE BODY & INSERTS:** PASSIVATED PER AMS-2700  
**FEMALE BODY, ANTI ROCK RING, SLEEVE, & CONTACTS:** GOLD PER ASTM B488, TYPE II, CODE C, CLASS 1.27; OVER NICKEL PER AMS-QQ-N-290, CLASS 1, .00005" MIN.

## PERFORMANCE:

**IMPEDANCE:** 50 OHMS  
**FREQ. RANGE:** DC TO 40.0 GHz  
**VSWR:** 1.30:1 MAX, DC TO 26.5 GHz  
 1.40:1 MAX, 26.5 GHz TO 40.0 GHz  
**AVG. POWER:** 0.5 WATT (POWER INPUT DERATED LINEARLY FROM 25°C TO 0.25 WATTS AT 125°C)  
**PEAK POWER:** 100 WATTS (PEAK POWER FOR A DUTY CYCLE OF 5X10<sup>-4</sup> MAXIMUM PULSE DURATION OF 5 MICROSECONDS)  
**OUTGASSING:** TML < 1.0%  
 CVCM < 0.1%

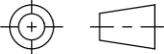


6312-XXX DASH #	DC-26.5 GHz ATTEN. dB	26.5-40.0 GHz ATTEN. dB
-000	0.0 dB +0.5/-0.0	0.0 dB +0.5/-0.0
-005	0.5 dB ± .5	0.5 dB ± .8
-010	1.0 dB ± .5	1.0 dB ± .8
-015	1.5 dB ± .5	1.5 dB ± .8
-020	2.0 dB ± .5	2.0 dB ± .8
-025	2.5 dB ± .5	2.5 dB ± .8
-030	3.0 dB ± .5	3.0 dB ± .8
-035	3.5 dB ± .5	3.5 dB ± .8
-040	4.0 dB ± .5	4.0 dB ± .8
-045	4.5 dB ± .5	4.5 dB ± .8
-050	5.0 dB ± .5	5.0 dB ± .8
-055	5.5 dB ± .5	5.5 dB ± .8
-060	6.0 dB ± .5	6.0 dB ± .8
-065	6.5 dB ± .6	6.5 dB ± .8

6312-XXX DASH #	DC-26.5 GHz ATTEN. dB	26.5-40.0 GHz ATTEN. dB
-070	7.0 dB ± .6	7.0 dB ± .8
-075	7.5 dB ± .6	7.5 dB ± .8
-080	8.0 dB ± .6	8.0 dB ± .8
-085	8.5 dB ± .6	8.5 dB ± .8
-090	9.0 dB ± .6	9.0 dB ± .8
-095	9.5 dB ± .6	9.5 dB ± .8
-100	10.0 dB ± .6	10.0 dB ± .8
-110	11.0 dB ± .6	11.0 dB ± 1.0
-120	12.0 dB ± .6	12.0 dB ± 1.0
-130	13.0 dB ± .6	13.0 dB ± 1.0
-140	14.0 dB ± .6	14.0 dB ± 1.0
-150	15.0 dB ± .6	15.0 dB ± 1.0
-200	20.0 dB ± .6	20.0 dB ± 1.0

## NOTES:

- 0912-6312-000 DOES NOT HAVE A RESISTIVE PATH TO GROUND.

MATERIAL: SEE NOTES	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/64 ANGULAR: X° ±1'0" X'X' ±15'	UNLESS OTHERWISE SPECIFIED 1) ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) 2) ALL DIMENSIONS ARE AFTER PLATING. 3) BREAK CORNERS & EDGES .005 R. MAX. 4) CHAM. 1ST & LAST THREADS. 5) SURFACE ROUGHNESS 63-MIL-STD-10. 6) DIA. 'S ON COMMON CENTERS TO BE CONCENTRIC WITHIN .005 T.I.R. 7) REMOVE ALL BURRS	 TITLE: SMP FULL DETENT MALE TO SMP FEMALE ATTENUATOR DC TO 40 GHz.
FINISH: SEE NOTES	DECIMAL: X ±.030 .XX ±.010 .XXX ±.005	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994	
SURFACE AREA: N/A	THIRD ANGLE PROJECTION	DRAWN: DCL 2/14/24	SIZE DWG. NO. B 0912-6312-XXX
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		APPROVED: SEE PDM	SHEET 1 OF 1