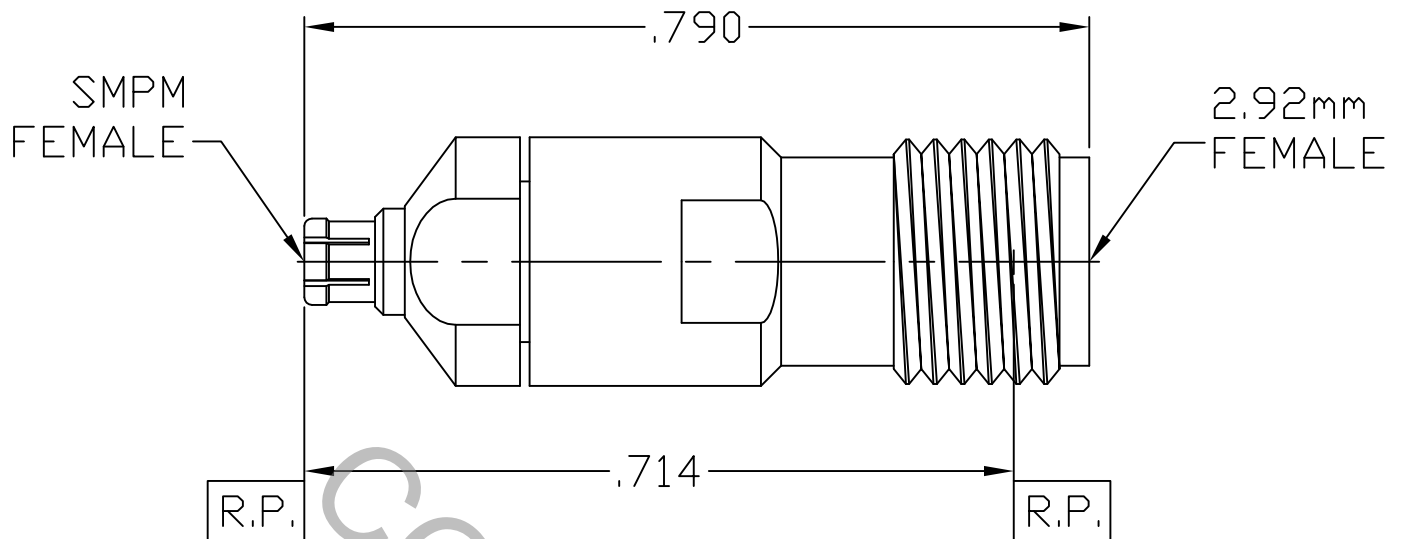


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 323.2 (2.9mm, JACK) AND Fig. 328.1 (SMPM, FEMALE).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX) *	1.05 + .005 x FGHz. (DC - 26.5 GHz.)
VSWR (MAX) *	1.05 + .010 x FGHz. (26.5 - 40.0 GHz.)
INSERTION LOSS (dB MAX)	.045 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	150
RF LEAKAGE (MIN. dB DOWN)	90 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +125° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	425
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	4.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	05-1386	3/25/05	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1' 0" X° X' ± 15"	
				SURFACE ROUGHNESS 63√MIL-STD 10.			
				DRAWN DC	DATE 3/25/05	TITLE SMPM, FEMALE TO 2.9mm JACK, ADAPTER	
				APPROVED DC	DATE 3/25/05		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-3095-5400	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### 2.9mm, JACK MATING FORCES - CENTER CONTACT

● INSERTION (MAX. OUNCES) \_\_\_\_\_ 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

### SMPM, FEMALE ENGAGEMENT FORCES

● ENGAGE (MAX. LBS.) \_\_\_\_\_ DETENT 5.0 LBS.

● DISENGAGE (MIN. LBS.) \_\_\_\_\_ DETENT 2.5 LBS.

### CONNECTOR DURABILITY (MIN. MATING)

● 2.9mm, JACK \_\_\_\_\_ 1,000

● SMP, FEMALE \_\_\_\_\_ 100

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65°C TO +165°C )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 100 VRMS )

## 5. MATERIAL

BODY 2.9mm \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

BODY SMP, CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
No. UNS C17300, TEMPER TD04.

2.92 INSULATOR \_\_\_\_\_ PLASTIC COMPOSITE

SMPM INSULATOR \_\_\_\_\_ TEFLON PER D 1457

## 6. FINISH

BODY 2.9mm \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE 1.

BODY SMP \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE C, CLASS 1.25  
(.000050 - .000100 Minimum Thickness) OVER NICKEL  
per QQ-N-290, (.000100 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000040 Minimum Thickness).

CENTER CONTACT \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE C, CLASS 2.5  
(.000100 Minimum Thickness) OVER NICKEL per  
QQ-N-290, (.000050 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATORS \_\_\_\_\_ N/A