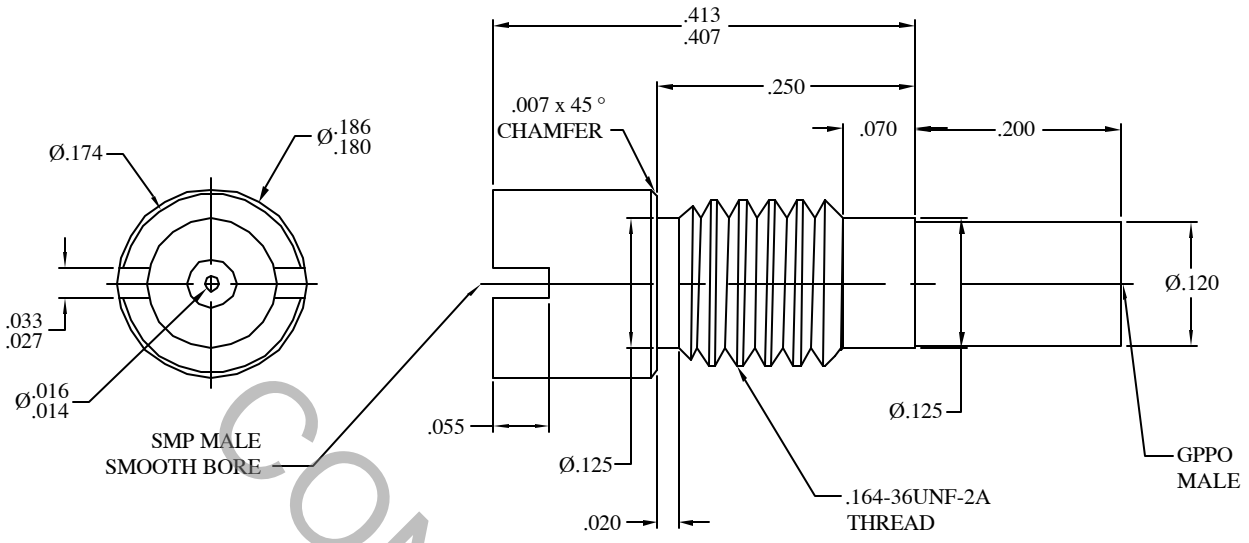
SPECIFICATION CONTROL DRAWING



1. MATING a.INTERFACE DIMENSIONS PER (MIL-STD-348A NOTICE 3, Fig. 326.5).

b. MATING INTERFACE DIMENTIONS PER MIL-STD 348, FIG 328.3

2. ELECTRICAL

FREQUENCY RANGE (DC TO 23.0 GHz) ✻	VSWR 1.10 MAX.
FREQUENCY RANGE (23.0 TO 26.5 GHz) ✻	VSWR 1.15 MAX.
FREQUENCY RANGE (26.5 TO 40.0 GHz) ✻	VSWR 1.40 MAX.
INSERTION LOSS (dB MAX.) ✻	.10 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170 @ SEA LEVEL 45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	-80 dB (3 GHz. MAX.) -65 dB (26.5 GHz. MAX.)
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500 @ SEA LEVEL, 125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

✻ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	04-1926	8/6/04	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005 | FRACTIONAL: ± 1/64 | ANGULAR: X° ± 1° 0', X° X' ± 15'

SURFACE ROUGHNESS 63 MIL-STD 10.

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN	MRH	DATE	8/6/04
APPROVED	DC	DATE	8/6/04

TITLE
SMP, MALE(SMOOTH BORE)
TO GPPO MALE
ADAPTER

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		1139-2131-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	1.5 LBS.
• MIN. RADIAL TORQUE	N/A
RADIAL MISALIGNMENT	.010 MIN.
AXIAL MISALIGNMENT	.000/.010
CONNECTOR ENGAGEMENT FORCES	
• INSERTION (MAX. LBS.)	2.0
• WITHDRAWAL (MIN. LBS.)	0.5
CONNECTOR DURABILITY (MIN. MATING)	100

4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (HIGH TEMP. +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
	1000 MEGOHMS MINIMUM WITHIN 5 MINUTES.
CORONA (70,000 FEET)	190 VRMS
RF HIGH POTENTIAL MIN. VOLTS	325 VRMS @ SEA LEVEL, FREQ. 5 MHz.
VIBRATION, RANDOM	MIL–STD 202, METHOD 214, TEST CONDITION F

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91

6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35C, TYPE V1.
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–29D, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR	N/A