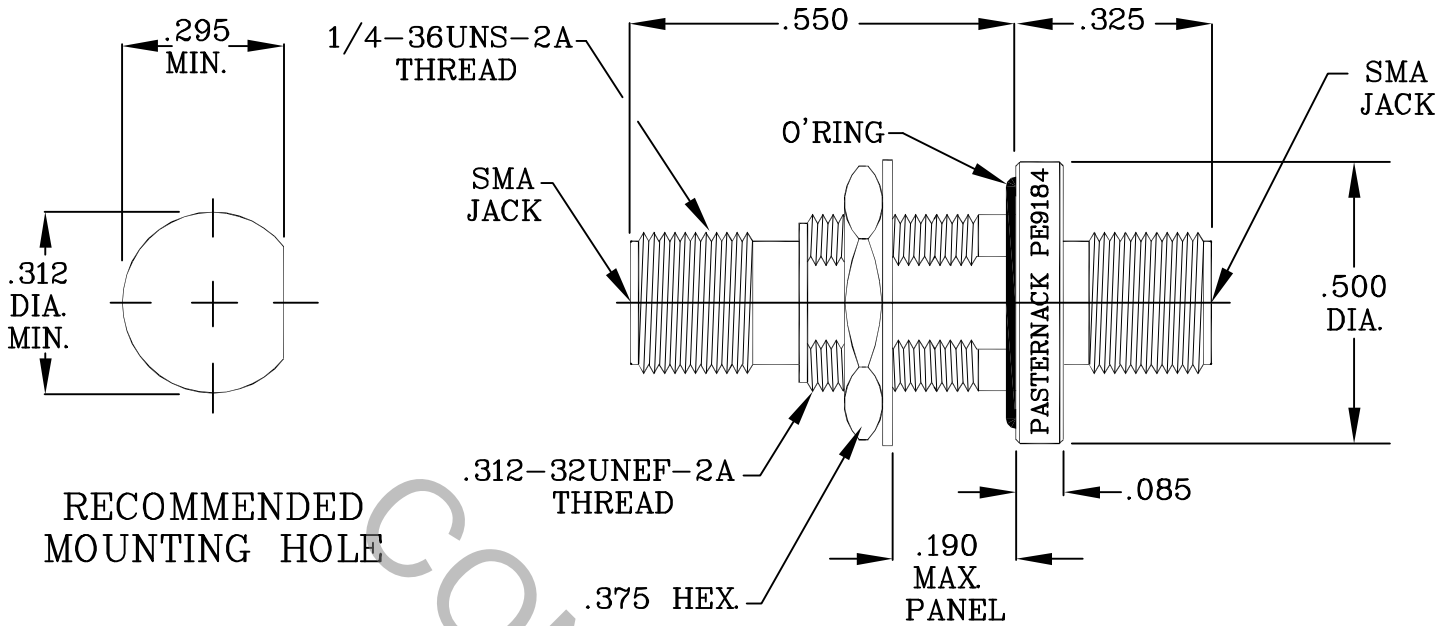


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA, JACK AND DYNAWAVE SPECIFICATION MD-99

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz.
VSWR (MAX.) *	_____	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) *	_____	.045 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	500
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA 01835	
AA	05-1278	3/3/05	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±1/64	ANGULAR X° ± 1' 0" X° X' ± 15'		
				DRAWN	SS	DATE	3/3/05	
				APPROVED	TS	DATE	3/3/05	
				CODE IDENT.		SHEET	1 OF 2	
				2J899		DWG. NO.	1120-9999-6286	
				TITLE				SMA JACK TO SMA JACK, HERMETIC BULKHEAD ADAPTER

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

- INTERFACE _____ 7-10 In.Lbs.
- PACKAGE _____ 17-20 In.Lbs.

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.) (375 VRMS)
HERMETICITY _____ 1×10^{-8} cc/sec

5. MATERIAL

CONNECTOR BODY, LOCKNUT AND LOCKWASHER _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATORS _____ TEFLON PER ASTM D 4894-91
GLASS PIN _____ KOVAR PER MIL-I-23011
GLASS _____ CORNING 7070
O'RING _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60

6. FINISH

CONNECTOR BODY, LOCKNUT AND LOCKWASHER _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CENTER CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5
(.000010 MIN.) OVER NICKEL PER QQ-N-290 (.000050 MIN.)
OVER COPPER PER MIL-C-14550 (.000010 MIN.)

INSULATOR AND O'RING _____ N/A