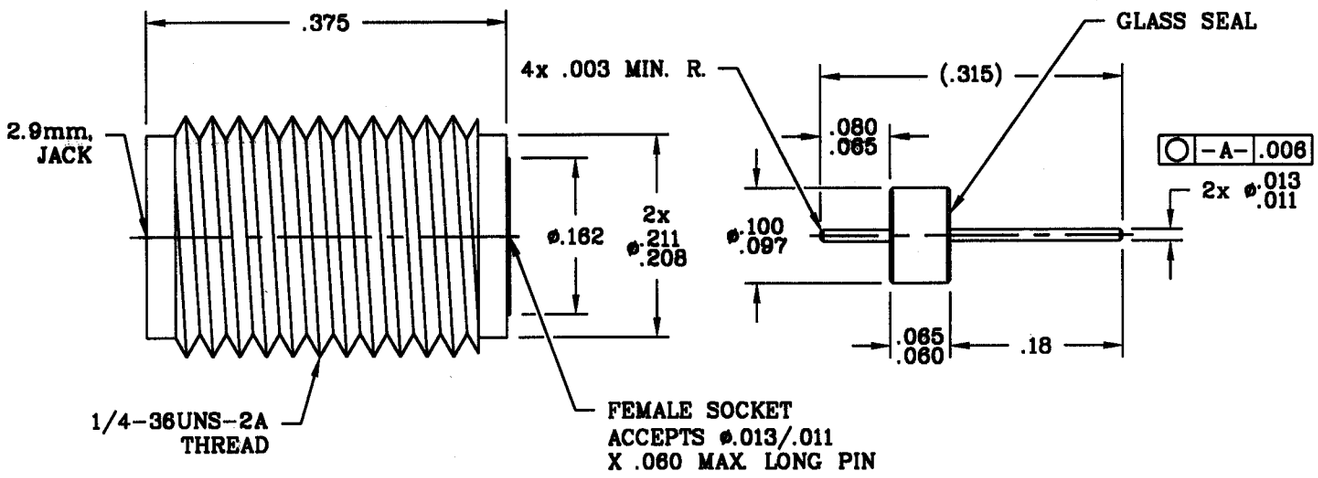
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR 2.9mm, JACK per MD-95.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 37.0 GHz.
VSWR (MAX.) *	1.05 + .013 x FGHz
INSERTION LOSS (dB MAX.)	.09 x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-55°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,0000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	03-1385	3-25-03	G.E.

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.050 .XX ±.010 .XXX ±.005	±1/64	X° ± 1° 0' X° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN G.E. DATE 03/25/03

APPROVED D.C. DATE 3-25-03

CODE IDENT. 2J899

SHEET 1 OF 2

TITLE: 2.9mm, JACK, SPARK PLUG, ACCEPTS ø.012 PIN, WITH GLASS SEAL

DWG. NO. 9530-0012-6212

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER PIN	
MAX. AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	2.92mm N/A, GLASS 4.0 IN.OZ.
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	2.92mm INTERFACE & REAR 48.0, GLASS N/A
● WITHDRAWAL (MIN. OUNCES)	2.92mm INTERFACE & REAR 2.0, GLASS N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.92mm 2.0, GLASS N/A
CONNECTOR DURABILITY (MIN. CYCLES)	2.92mm 500, GLASS N/A
RECOMMENDED MATING TORQUE	2.92mm 7 – 10 IN. LBS., GLASS N/A

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.) (190 VRMS)
HERMETICITY	1 x 10^{-8}cc/SEC.

5. MATERIAL

CONNECTOR BODY AND SLEEVE	STAINLESS STEEL PER AMS-5640, TYPE 3030, COND. A
CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON
GLASS	CORNING 7052
GLASS, MALE PIN AND RING	KOVAR PER MIL-I-23011

6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ-P-35A, TYPE I
CONTACT AND SLEEVE	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL PER QQ-N-290 (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.).
INSULATOR AND GLASS	N/A
GLASS, RING AND MALE PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MIN. THK.)