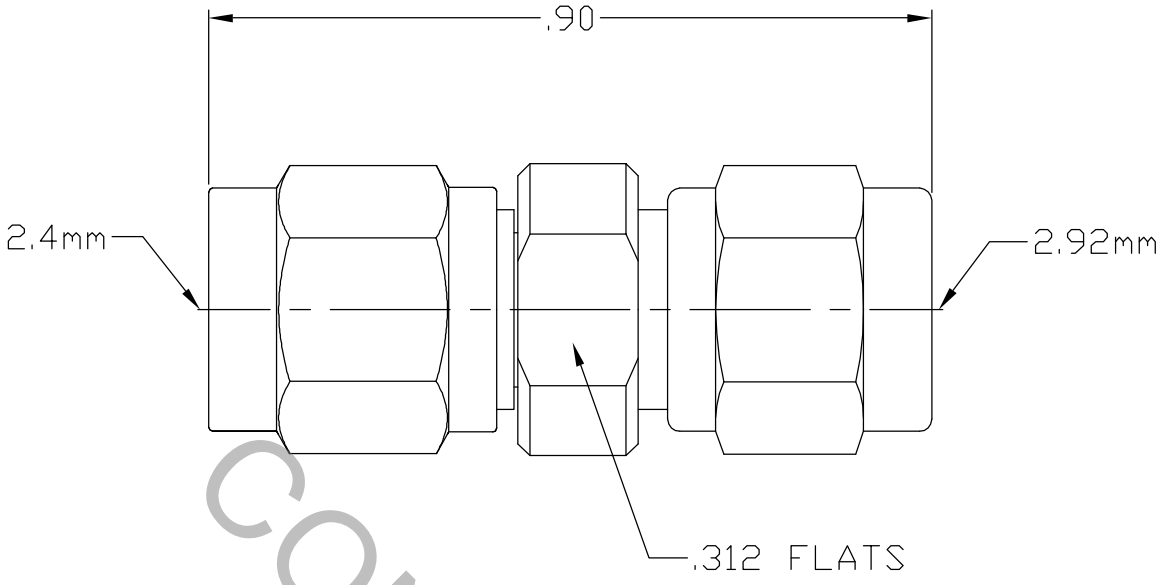
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS, 2.4mm PLUG Per DYNAWAVE SPECIFICATION MD-12.
INTERFACE DIMENSIONS, 2.9mm PLUG Per DYNAWAVE SPECIFICATION MD-94.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	DC – 18.0 GHz. — 1.10:1
	18.0 – 26.5 GHz. — 1.14:1
	26.5 – 40.0 GHz. — 1.29:1
INSERTION LOSS (dB MAX.) ❋	.035 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	–100 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ "GATED" TEST DATA

REV.	DCN NO.	DATE	APP.
AA	06-1788	6/27/06	DC
AB	06-2208	10/2/06	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 6/27/06

APPROVED DC DATE 6/27/06

TITLE
2.4mm PLUG TO
2.9mm PLUG ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-1294-6250

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

MAX. AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES)	32.0
● WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	1000
RECOMMENDED MATING TORQUE	7 – 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65° c TO + 125° 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)

5. MATERIAL

BODIES AND COUPLING NUTS	STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A
CONTACTS AND RETAINING RINGS	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	PLASTIC COMPOSIT
GASKETS	SILICONE RUBBER PER ZZ–R–765

6. FINISH

BODIES AND COUPLING NUTS	PASSIVATE PER AMS QQ–P–35, TYPE 2
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS .75 (.000030 MIN. THK.) OVER NICKEL per QQ–N–290 (.000050 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
INSULATOR, RETAINING RING AND GASKETS	N/A