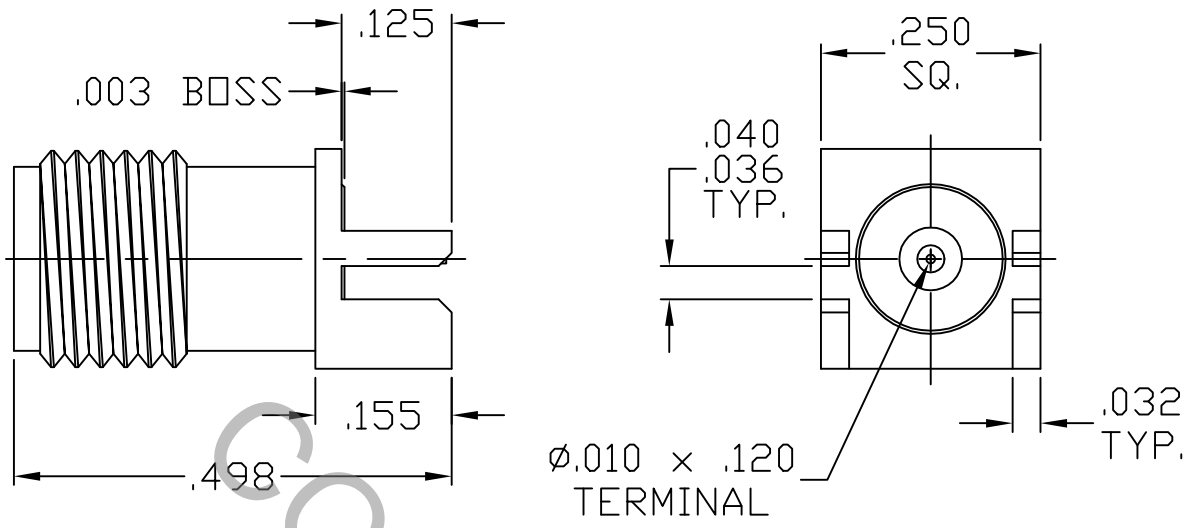
SPECIFICATION CONTROL DRAWING



1. MATING

INTERFACE DIMENSIONS FOR 2.9mm (SMK) JACK per MIL-STD-348-323.2

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	1.06 + .011 x FGHz
INSERTION LOSS (dB MAX.)	.035 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	160
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 125°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
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	05-1687	6/21/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005
FRACTIONAL: ± 1/64
ANGULAR: °X ± 1°, °X' ± 15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN: DC DATE: 6/21/05
APP.: DC DATE: 6/21/05

TITLE
2.9mm JACK, PCB
EDGE MOUNT
Ø.010 TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9520-0036-6400

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)	500
RRECOMMENDED 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.) (125 VRMS)

5. MATERIAL

CONNECTOR BODY & C/NUT	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	PLASTIC COMPOSIT
SLEEVE	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

6. FINISH

CONNECTOR BODY & SLEEVE	GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000150 Minimum Thickness) OVER WWODS OR WATTS NICKEL (.000010 Minimum Thickness).
CONTACT	GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).
INSULATOR	N/A