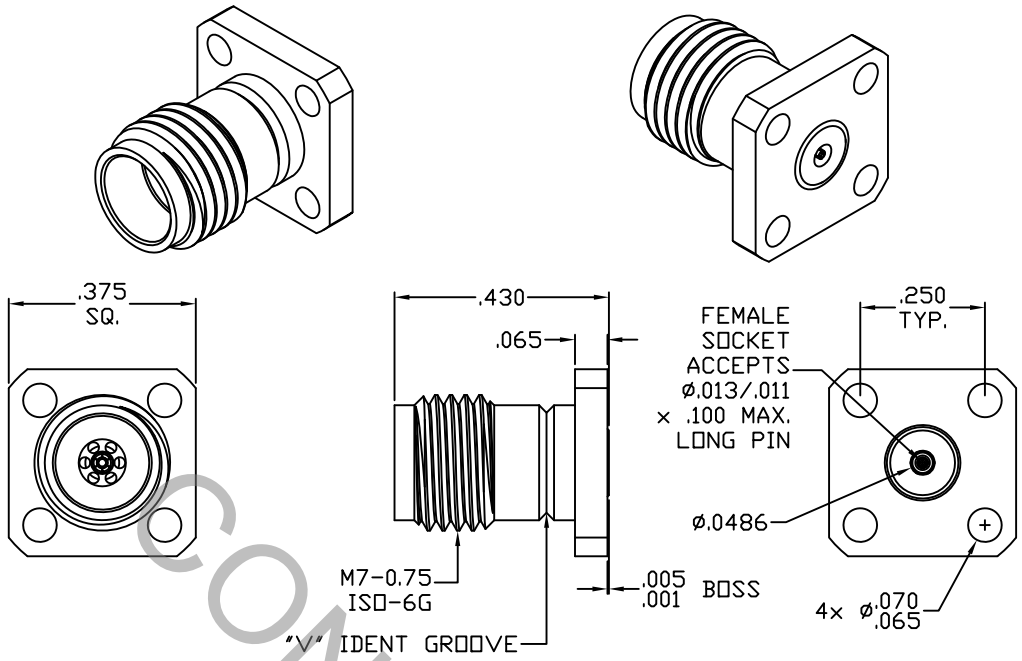
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per DYNAWAVE SPECIFICATION MD-13-1 (2.4mm JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 50.0 GHz
VSWR (MAX.) ❋	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	113
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	340
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	4.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1960	10/11/10	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	DC	DATE	10/11/10
APPROVED	DC	DATE	10/11/10

TITLE: 2.4mm JACK
4 HOLE FLANGE
ACCEPTS Ø.012 PIN

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		1354-0085-6204

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 32.0, REAR 24.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	7 – 10 IN. LBS.

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4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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.) (85 VRMS)

5. MATERIAL

BODY & SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACTS	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	PLASTIC COMPOSIT

6. FINISH

BODY	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
SLEEVE	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATOR	N/A