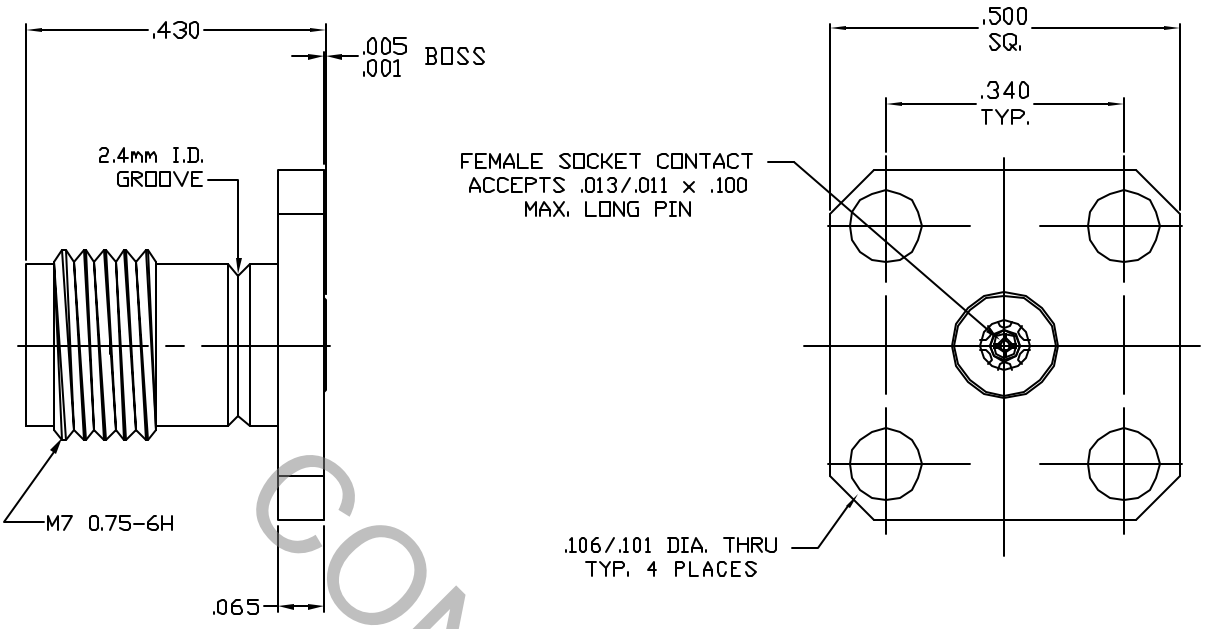
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS FOR 2.4mm JACK per DYNAWAVE MD-13

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 50.0 GHz
VSWR (MAX.) ❁	1.05 + .01 x FGHz
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	150
RF LEAKAGE (MIN. dB DOWN)	-90 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 °c TO + 125 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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

REV.	DCN NO.	DATE	APP.
AA	05-1777	8/5/05	TS

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

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN: TS DATE: 8/5/05

APP.: DC DATE: 8/5/05

TITLE
2.4mm JACK, 4 HOLE FLANGE MOUNT FOR .012 DIA. PIN

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1354-0085-6203

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)	INTERFACE 48.0
• WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT(MAX. IN. 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 (-25° c TO $+100^{\circ}$ 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)

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5. MATERIAL

CONNECTOR BODY & SLEEVE	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON

6. FINISH

CONNECTOR BODY & SLEEVE	PASSIVATE PER QQ–P–35A, TYPE 1
CONTACT	GOLD per MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000100 Minimum Thickness) OVER NICKEL per QQ–N–290, CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000010 Minimum Thickness).
INSULATOR	N/A