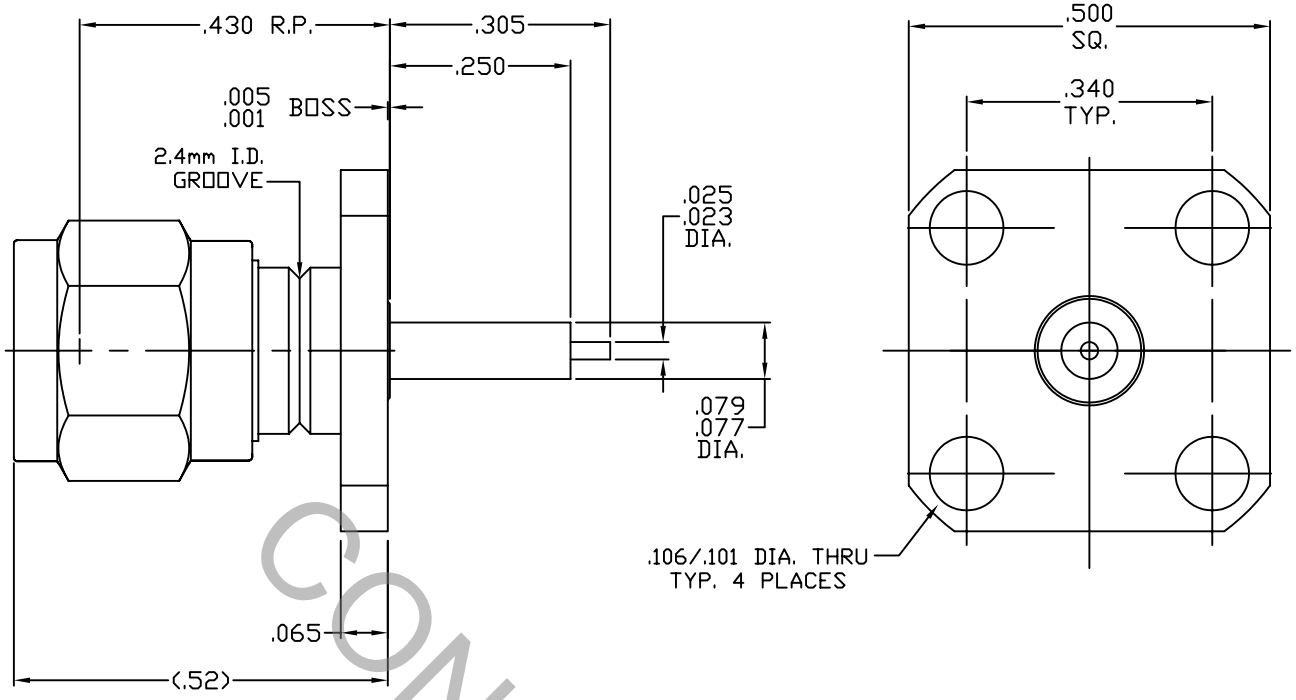
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS FOR 2.4mm PLUG per DYNAWAVE MD-12

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 50.0 GHz
VSWR (MAX.) ❋	1.30 MAX. @ 50.0 GHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{F}$GHz
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	06-1489	4/11/06	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ± 1° X.X ± .5'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN: TS DATE: 4/11/06

APP.: DC DATE: 4/11/06

TITLE
2.4mm PLUG, 2 HOLE
FLANGE MOUNT
STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1254-0035-6200

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. 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 (–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)

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5. MATERIAL

CONNECTOR BODY, COUPLING NUT & SLEEVE	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER ASTM B 196–90, COPPER ALLOY No. C17300 TEMPER TD04.
INSULATOR	PLASTIC COMPOSIT
GASKET	SILICONE

6. FINISH

CONNECTOR BODY & COUPLING NUT	PASSIVATE PER AMS QQ–P–35, TYPE 2
CONTACT & SLEEVE	GOLD PER ASTM A 488, CLASS 1, 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 & GASKET	N/A