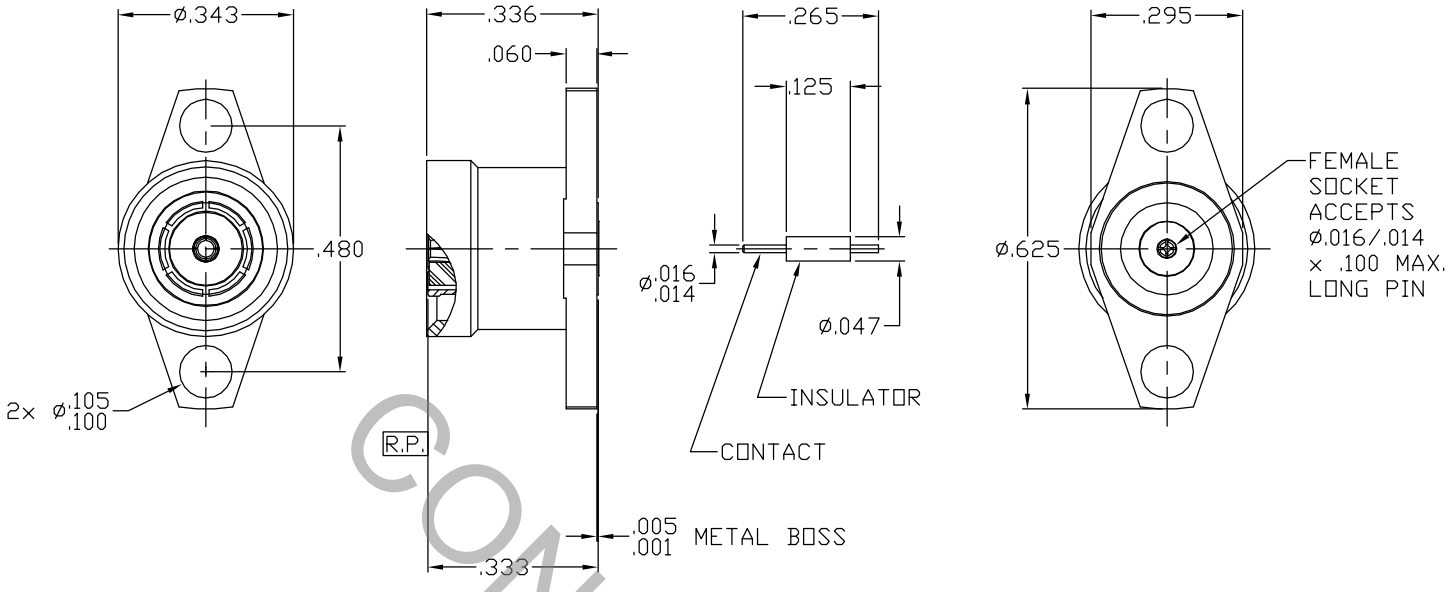
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS Per DYNAWAVE MD-25-4 (DMS JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 23.0 GHz
VSWR (MAX.) ❋	1.06 + .005 x FGHz
INSERTION LOSS (dB MAX.) ❋	.03 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
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

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	07-1116	1/31/07	TS
AB	07-1170	2/16/07	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 1/31/07

APPROVED DC DATE 1/31/07

TITLE
DMS JACK
2 HOLE FLANGE
FIELD REPLACEABLE
WITH INSULATOR/CONTACT SUB-ASSY.

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2552-0281-6214

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 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	3.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	N/A

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4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65° c TO + 165° 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

BODY & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–581, TYPE 303, COND. A
CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D1710–02, TYPE 1, GRADE1, CLASS B

6. FINISH

BODY & PRESS SLEEVE	PASSIVATE PER AMS QQ–P–35, TYPE 2.
CONTACT & SPRING FINGERS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL per QQ–N–290 (.000050 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
INSULATOR	N/A