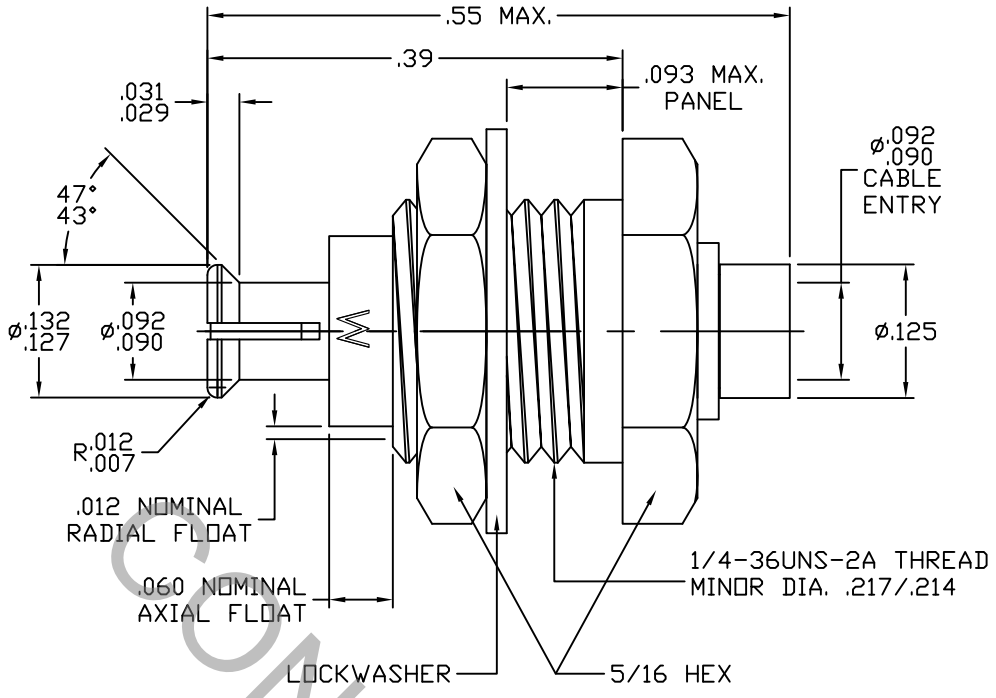
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per DYNAWAVE SPECIFICATION MD-20-53.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.05 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 150°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
CA	06-2407	11/20/06	TS
DA	14-1888	7/25/14	DC
DB	16-1128	2/1/16	TS

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 7/95

APPROVED DGG DATE 7/95

TITLE SMP, JACK
FLOAT MOUNT
DIRECT SOLDER TO
ø.085 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2060-8520-5453

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	3.5 LBS.
MAX. RADIAL TORQUE	N/A
* CONNECTOR ENGAGEMENT FORCE	
• INSERTION (MAX. LBS.)	4.0
• WITHDRAWAL (MIN. LBS.)	0.5
CONNECTOR DURABILITY (MIN. CYCLES)	250
CONNECTOR MOUNTING TORQUE	7 – 10 IN. LBS.
* CONNECTOR SPRING FORCE	6.0 MAX. LBS., 4.0 MIN. LBS.

* WHEN MATED TO 2137–0042–6232

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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.) (125 VRMS)

5. MATERIAL

FLANGE, PRESS RING, SPRING AND HEX. NUT	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
BODY AND CONTACT	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, CLASS B.
LOCKWASHER	400 SERIES STAINLESS STEEL.
"E" RING	CARBON SPRING STEEL SAE 1060/1090.

6. FINISH

FLANGE, PRESS RING, SPRING, "E" RING, HEX NUT & LOCKWASHER	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
BODY	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.)
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
"E" RING	BLACK CORROSION RETARDANT PHOSPHATE COATING
INSULATOR	N/A