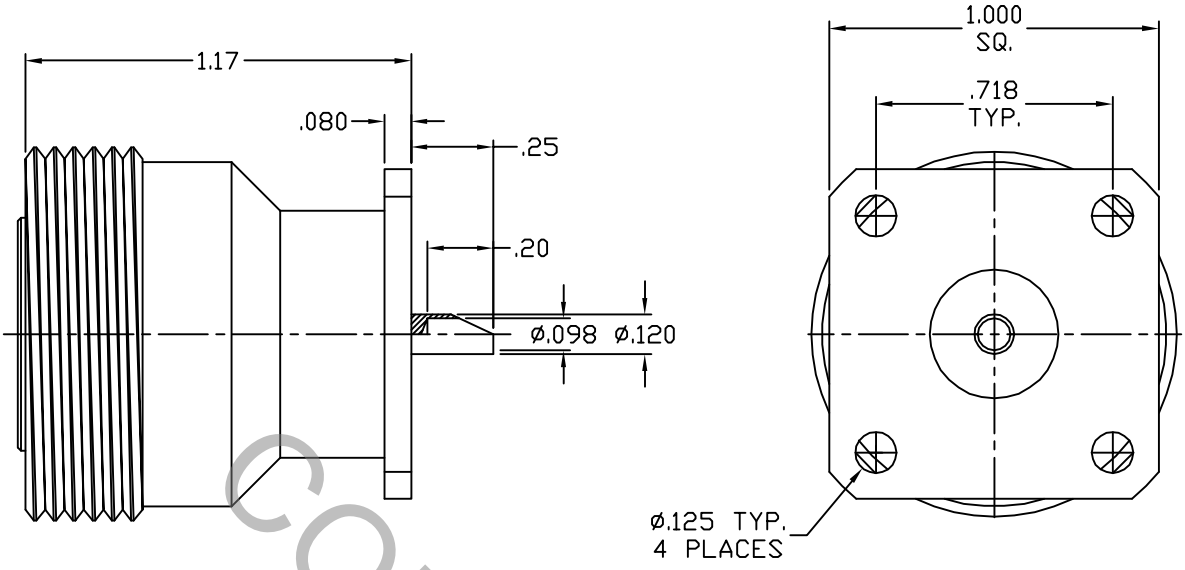
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per IEC 169-4, DIN 47223 (SOLID OUTER CONTACT).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 7.5 GHz
VSWR (MAX.) ❋	1.07 + .01 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.15 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	1,000
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	3,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	07-1967	9/28/07	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 DC DATE 9/28/07

APPROVED DC DATE 9/28/07

TITLE
7/16 DIN JACK
4 HOLE FLANGE
SOLDER CUP TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 4954-0021-2100

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MIN. AXIAL FORCE	6.0 LBs.
MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	64.0
● WITHDRAWAL (MIN. OUNCES)	4.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	N/A
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	
● INTERFACE	60 – 80 IN. LBS.

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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.) (750 VRMS)

5. MATERIAL

BODY	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM–B196–90, COPPER ALLOY UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 2, GRADE 1, CLASS A.

6. FINISH

BODY	TRI–METAL ALLOY (.000100 MIN. THK.) COMPRISED OF 55%–60% COPPER, 25%–28% TIN, 14%–18% ZINC.
CENTER CONTACT	**GOLD per ASTM–B–488, TYPE I, CODE C, CLASS 1.25, (.000050 MIN. THK.) OVER COPPER Per MIL–C–14550 (.000040 MIN. THK.)**
INSULATOR	N/A