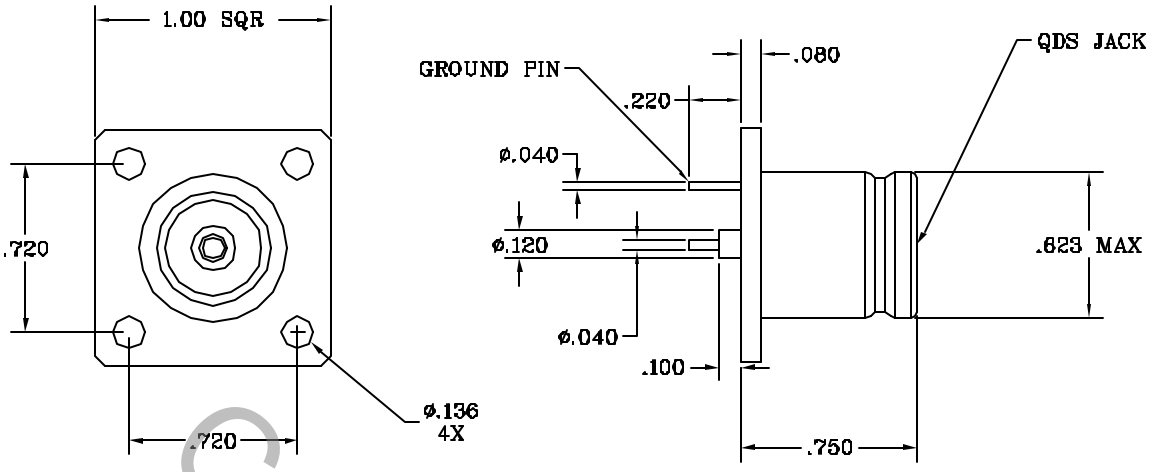
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, MIL-PRF-39012/35 AND DYNAWAVE SPECIFICATION MD-XX*.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz.
VSWR (MAX.) ❁	1.10 + .01 x fGHz
INSERTION LOSS (dB MAX.) ❁	.03 dB x$\sqrt{\text{fGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	1000
RF LEAKAGE (MIN. dB DOWN)	85dB - fGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	3000
INSULATION RESISTANCE (MIN. MEGOHMS)	5000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❁ TERMINATED IN A 50 OHM LOAD

* ALL DIMENSTIONS AND SPECIFICATION MAY NOT APPLY.

REV.	DCN NO.	DATE	APP.
AA	03-1965	8/4/03	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X ° ±1 °0' X ° X ±15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN BN DATE 8/1/03

APPROVED DC DATE 8/4/03

TITLE QDS JACK
4 HOLE FLANGE
TERMINAL WITH GROUND
STUD.

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7754-0931-2100

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — 48.0
- WITHDRAWAL (MIN. OUNCES) — 2.0

CONNECTOR DURABILITY (MIN. MATING) — 500

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 °c TO + 200 °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.) [250 VRMS]

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5. MATERIAL

CONNECTOR BODY	BRASS PER ASTM B36, TEMPER H02, ALLOY C36000
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER D 4894

6. FINISH

CONNECTOR BODY	"TRI–METAL" ALLOY, 55%–60% COPPER, 25%–26% TIN AND 14%–18% ZINC. .0001 TO .0002 THICK.
CENTER CONTACT	GOLD PER ASTM B488, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR	N/A