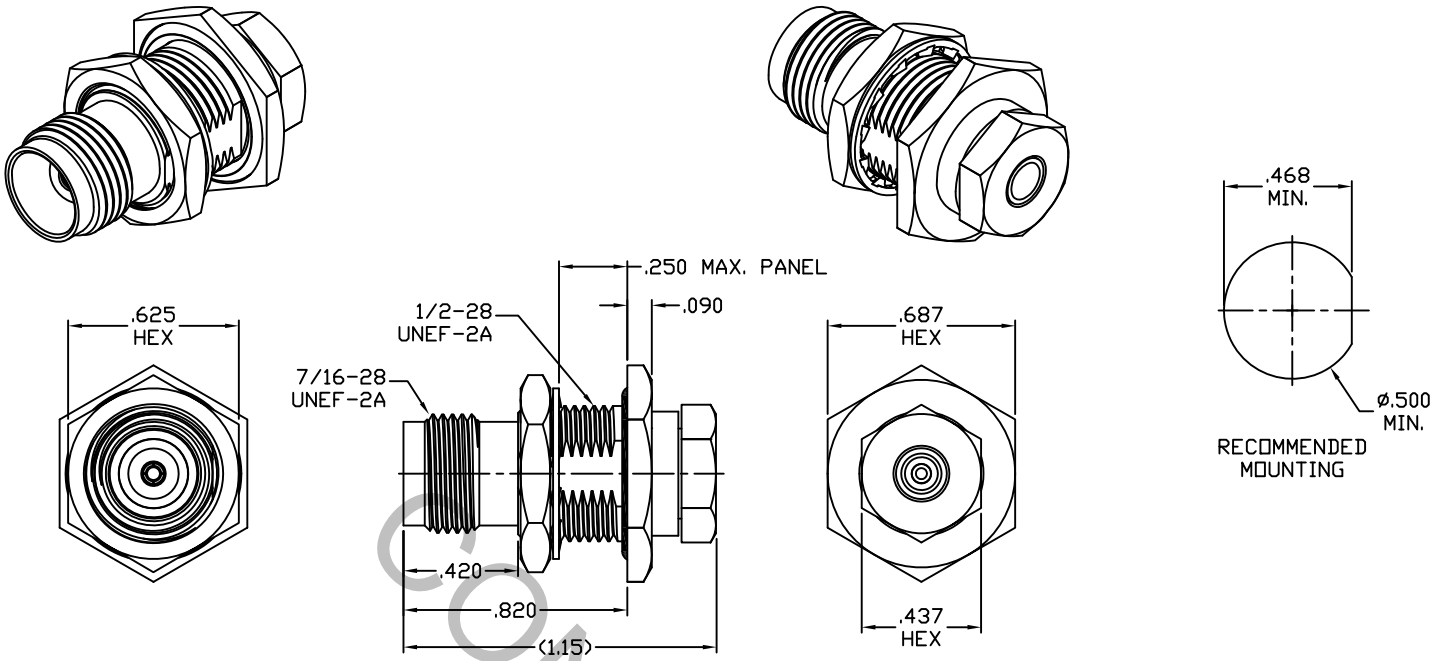
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 313-4 (KTNC JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.035 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.5
• 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.
AA	07-1906	9/13/07	DC
AB	07-1935	9/20/07	DC
AC	17-1061	1/13/17	DC

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

DRAWN DC DATE 9/13/07

APPROVED DC DATE 9/13/07

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL MA. 01835

TITLE: KTNC JACK, BULKHEAD, SOLDER CLAMP ATTACHMENT TO .141 SEMI-RIGID

DWG. NO. 8510-4145-6202

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)	32.0 INTERFACE
• WITHDRAWAL (MIN. OUNCES)	2.0 INTERFACE
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	1,000
RECOMMENDED MATING TORQUE	
INTERFACE	30–35 IN. LBS.
PANNEL	35–40 IN. LBS.

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.) (375 VRMS)

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5. MATERIAL

BODY, HEX NUT, REAR NUT & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
LOCKWASHER	400 SERIES STAINLESS STEEL
CONTACT	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY NO. UNS C17300.
INSULATORS	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O–RINGS	SILICONE RUBBER PER ZZ–R–765.
SOLDER SLEEVE	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, HEX NUT, REAR NUT, PRESS SLEEVE & LOCKWASHER	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACT & SOLDER SLEEVE	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER AMS–2418 (.000010 MIN.)
INSULATORS AND O–RINGS	N/A