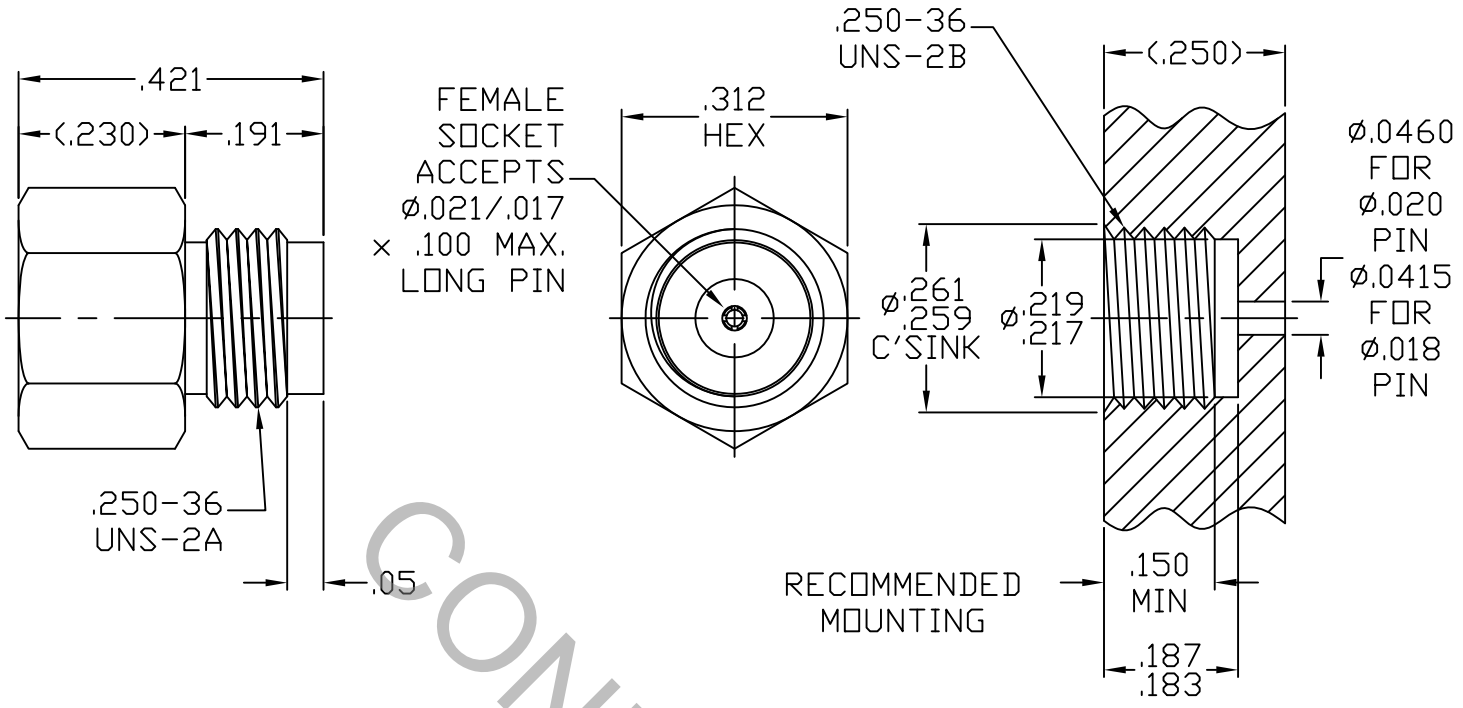
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 321.2 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 to .015)	.035 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMA INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• BMA INTERFACE GAP (.001 to .015)	90 dB – FGHz
• BMA INTERFACE GAP (.016 to .030)	75 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
–	778	11/90	DGG
A	911	1/93	TS
AA	10-2095	11/22/10	TS
AB	13-1238	2/15/13	TS
AC	13-1469	4/2/13	TS

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 RF DATE 11/90

APPROVED DGG DATE 11/90

TITLE
BMA JACK,
SCREW-IN
MIC. PACKAGE

CODE IDENT. 2J899

SHEET 1 of 3

DWG. NO. 2930-0081-6220

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	4.5 LBS.
• MIN. RADIAL TORQUE	N/A
BMA ENGAGEMENT FORCES	
• INSERTION (MAX. OUNCES)	INTERFACE 48.0, REAR 32.0
• WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
BMA DURABILITY (MIN. MATING)	500
RECOMMENDED MATING FORCES	
• MIC PACKAGE (TORQUE)	20–24 IN. LBS.
• PLUG CONNECTOR – INSERTION FORCE	3.0 LBS. MAXIMUM

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.) (190 VRMS)

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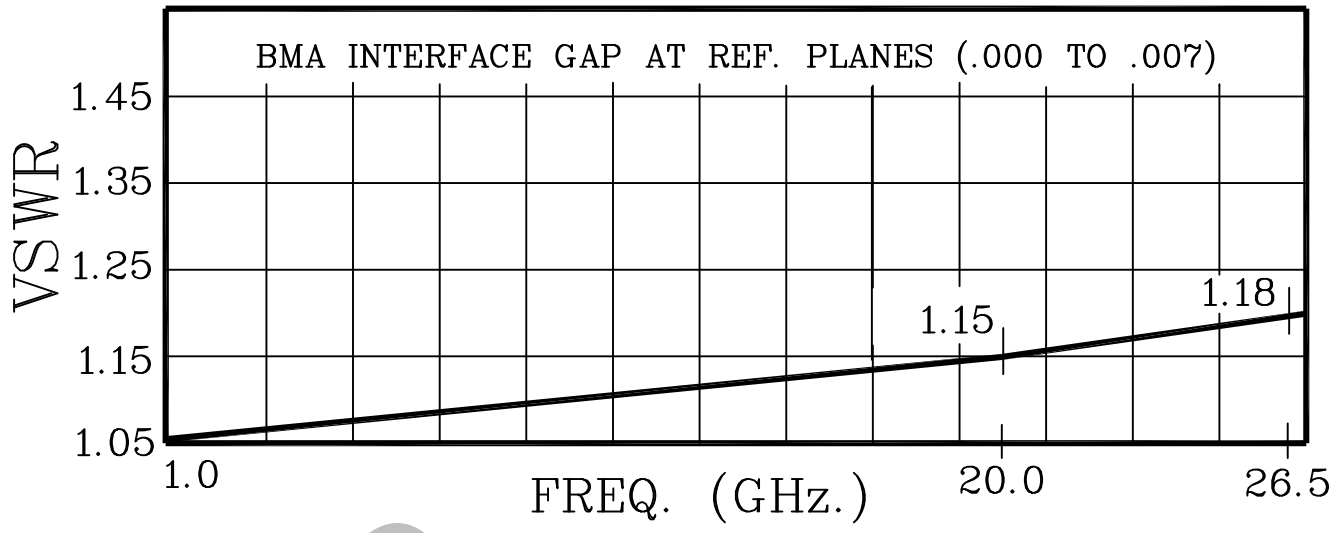
5. MATERIAL

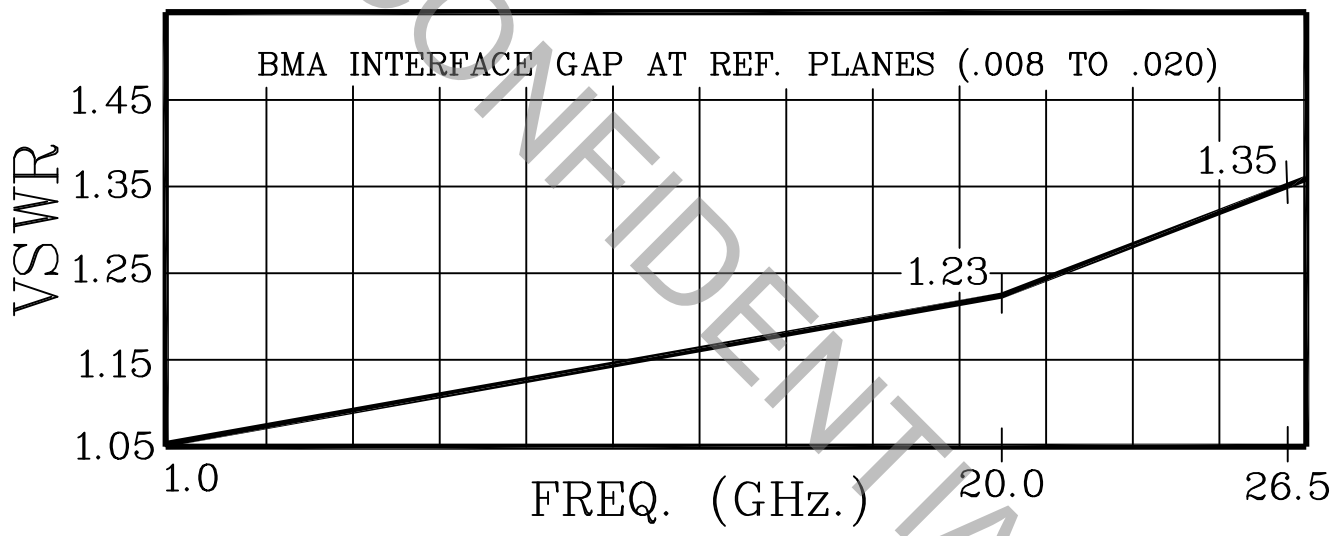
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CANTED COIL SPRINGS	STAINLESS STEEL PER ASTM–A–313, TYPE 302.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS 17300, TEMPER TD04.
CENTER CONTACT HOOD	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY AND CANTED COIL SPRINGS	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER CONTACT AND CENTER CONTACT HOOD	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THICKNESS) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN. THICKNESS) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING





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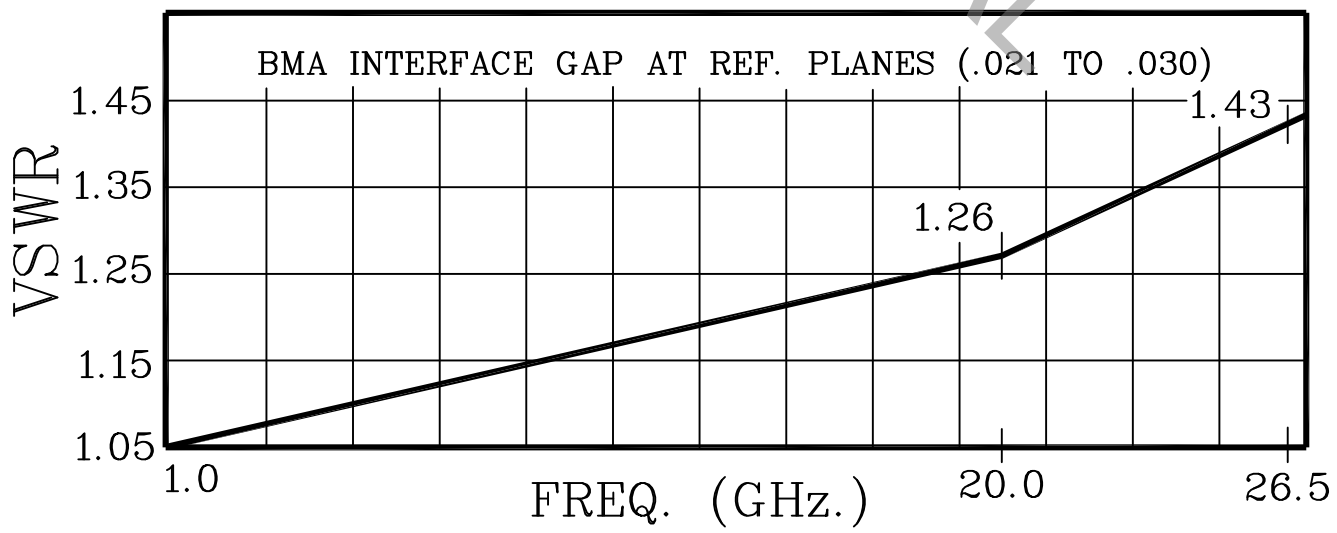

dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2930-0081-6220	REV. AC