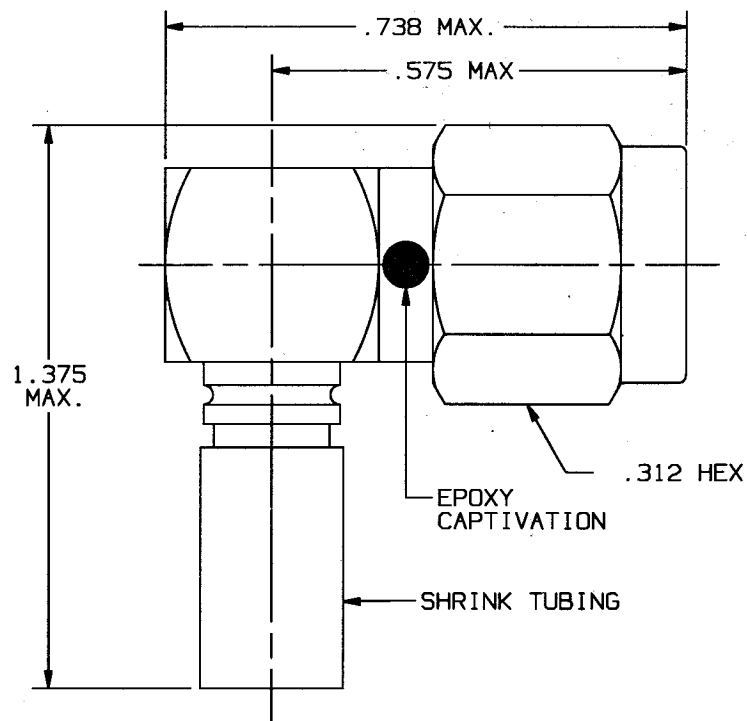


CONFIGURATION: [TOLERANCE $\pm$.005 UNLESS OTHERWISE SPECIFIED]



ENG. FILE COPY

SMA PLUG, R/A CUBE CRIMP OR SOLDER FOR
M17/119-RG174, M17/113-RG316,
M17/173-00001Ø, M17/172-00001Ø CABLES

DWG.NO.

M39012/56B3119

ELECTRICAL:

NOMINAL IMPEDANCE (OHMS) 50
FREQUENCY RANGE (GHZ) DC TO 12.4
VOLTAGE RATING (MAX.VRMS) 250
VSWR (MAX.) 1.15 + .03 f x GHz
INSERTION LOSS (DB MAX. x $\sqrt{\text{FGHz}}$) .15
RF LEAKAGE (MIN.DB DOWN) -60
RF HIGH POTENTIAL (MAX.VRMS) 500 AT 7.5 MAX.MHz
DIELECTRIC WITHSTANDING VOLT. (MAX.VRMS) 750
INSULATION RESISTANCE (MIN.MEGOHMS) 5000
CONTACT RESISTANCE:
CENTER CONTACT (MAX. MILLIOHMS) 4.0
OUTER CONTACT (MAX. MILLIOHMS) 2.0

MECHANICAL:

PER MIL-STD 348
AND S/V MD-107
INTERFACE DIMENSIONS
RECOMMENDED
MATING TORQUE 7 TO 10 IN. LB.
CENTER CONTACT AXIAL FORCES:
INSERTION (MAX. OUNCES) N/A
WITHDRAWAL (MIN. OUNCES) N/A
CONNECTOR DURABILITY (MIN. CYCLES) 500
CONNECTOR ENGAGEMENT AND
DISENGAGEMENT (MAX.INCH LBS.) 2.0 (RADIAL)
CENTER CONTACT
CAPTIVATION 6.0 LBS. MIN. AXIAL FORCE

MATERIAL & FINISH:

BODY, FERRULE & COUPLING NUT: STAINLESS STEEL PER AMS-5640,
UNS-30300, TYPE I. PASSIVATE PER QQ-P-35C, TYPE II.
CAP: STAINLESS STEEL PER ASTM-A-240, TYPE 304, COND. A.
PASSIVATED PER QQ-P-35C, TYPE II.
CONTACT: BRASS PER ASTM-B-16, ALLOY C36000, TEMPER H02, GOLD PER
MIL-G-45204, TYPE I, GRADE C, CLASS 1. OVER NICKEL PER QQ-N-290
CLASS 1.
LOCK RING: BERYLLIUM COPPER PER ASTM-B-196, COND.TD04, ALLOY
UNS-C17300.
GASKET: SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50-60.
INSULATOR: TEFLON PER ASTM-D-1457
CRIMP RING: COPPER PER WW-T-799, TYPE K, FORM A, CLASS 1. SILVER WITH
TARNISHING PROTECTION PER QQ-S-365, TYPE II, GRADE A.
SHRINK TUBING: POLYOFIN PER MIL-I-23054/4-102-0.

ENVIRONMENTAL:

TEMP. RATING (DEGREES CENTIGRADE) -65° TO +165°C
VIBRATION (MIL-STD-202, METHOD 204, CONDITION D, 20G'S)
SHOCK (MIL-STD-202, METHOD 213, COND.I, 100G'S)
TEMP. CYCLING (MIL-STD-202, METHOD 107, COND.B, -65c TO 200° C)
MOISTURE RESISTANCE (MIL-STD-202, METHOD 106, LESS STEP 7B)
BAROMETRIC PRESSURE (ALTITUDE) MIL-STD-202, METHOD 105,
COND. C, 70,000 FT., 190 VRMS)
HERMETICITY: N/A

CABLE ASSEMBLY INSTRUCTIONS: 300-80-582

SYM.	DESCRIPTION	DATE	APPR.	DRAWN:	APPROVED:	SOLITRON/VECTOR MICROWAVE 3301 ELECTRONICS WAY WEST PALM BEACH, FL., 33407	DWG.NO. M39012/56B3119
-	REL. DCN 23133	2/97	JM	BRT	JM		
A	REL. DCN 23198	2/97	A	DATE 1/16/97	DATE 2/97		