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COMPONENT	MATERIAL	FINISH	
HOUSING	STAINLESS STEEL PER ASTM-A-484 OR ASTM-A-582 TYPE 303	GOLD PLATED PER ASTM-B-488	
DIELECTRIC	PTFE FLUOROCARBON PER ASTM-D-1457	-	
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197 ALLOY C17300, CONDITION H	GOLD PLATED PER ASTM-B-488	
HERMETIC SEAL	GLASS BEAD	-	
CONTACT EXTENSION	BRASS PER ASTM-B-16 HALF HARD	GOLD PLATED PER ASTM-B-488	
"O"-RING	ETHYLENE PROPLENE PER ASTM-D2000-70	-	

LOC	DIST	REVISIONS					
DF	X0	P	LTR	DESCRIPTION	DATE	DWN	APVD
		0		RELEASED	2-3-05	CT	RG

Side view of the SMA hermetically sealed microstrip transition. Dimensions include: .120^{+0.005}/_{-.000} [3.05^{+0.13}/_{-0.00}], .320±.003 [8.13±0.08], .375 [9.52], .065 [1.65], .250-36 UNS-2A, .695 REF [17.65], .340 [8.64] 2 PLC, φ.060±.002 [1.52±0.05], φ.161±.001 [4.09±0.03], φ.241 [6.12], and "O"-RING.

Top view of the SMA hermetically sealed microstrip transition. Dimensions include: .340 [8.64] 2 PLC, φ.102 [φ2.59] 4 PLC, .500 [12.70] SQUARE, and φ.241 [6.12].

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ohms) 50	Interface Dimensions MIL-STD-348A, Fig. 310-2	TEMPERATURE RATING -65 TO +165°C
Frequency Range (GHz) DC to 12.0	Recommended Mating Torque 7-10 IN-LBS	Vibration MIL-STD-202, Method 204, Condition B
Volt Rating (VRMS MAX) @ Sea Level 335	Mating Characteristics:	Shock MIL-STD-202, Method 213, Condition - Acceleration 200G
VSWR 1.05 +.005f(GHz) @ Dc TO 12 GHz	Insertion (MAX Lbs) 3.0	Thermal Shock MIL-STD-202, Method 107, Condition B,
Insertion Loss (dB MAX) N/A	Withdrawal (MIN Oz) 1.0	Moisture Resistance MIL-STD-202, Method 106
RF Leakage (dB MIN) N/A	Force to Engage and Disengage (In-Lbs MAX) 10.0	Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray
Corona, 70,000 Ft (VRMS MIN) 250	Center Contact Captivation Axial (Lbs) 6.0	
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 1,000	Cable Retention TBD	
Contact Resistance (Milliohms MAX) Center Contact 2.0	Axial Force (Lbs) N/A	
Outer Contact 1.0	Torque (In-Oz) N/A	
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 670	Weight (Grams) TBD	
I.R.(Megohms MIN) 10,000		

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C.C.THOMAS 2-3-05	1757141-1	
DIMENSIONS: INCHES [mm]		CHK R.GROSS 2-4-05	PART NO.	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD R.GROSS 2-4-05	NAME	
0 PLC ± -		PRODUCT SPEC	tyco Electronics Tyco Electronics Corporation Harrisburg, Pa 17105-3608	
1 PLC ± -		APPLICATION SPEC	SMA HERMETICALLY SEALED MICROSTRIP TRANSITION	
2 PLC ± -		WEIGHT TBD	SIZE A2	CAGE CODE 00779
3 PLC ± .005 [0.13]		FINISH	DRAWING NO. 1757141	RESTRICTED TO
4 PLC ± -		SEE TABLE	SCALE 8:1	SHEET 1 OF 1
ANGLES ± -		SEE TABLE	CUSTOMER DRAWING	REV 0

AMP 1471-9 REV 31MAR2000

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