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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASED PER ECO 09-018299	8-7-09	CT	DW

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ω hms) <u>50</u>	Interface Dimensions MIL-STD-348 FIG 310.1	TEMPERATURE RATING <u>-65°C TO 105°C</u>
Frequency Range (GHz) <u>DC to 18.0</u>	Recommended Mating	Vibration - MIL-STD-202, Method 204, Condition D
Volt Rating (VRMS MAX) <u>335</u>	Torque <u>7.0 to 10.0 In/Lbs</u>	Shock - MIL-STD-202, Method 213, Condition I
VSWR <u>1.05+006f(GHz) MAX</u>	Connector Engagement	Thermal shock MIL-STD-202, Method 107 Test Condition B
Insertion Loss (dB MAX) <u>.06 \sqrt{f}(GHz)</u>	Center Contact Captivation	EXCEPT HIGH TEMP 115°C
RF Leakage <u>-[60-f(GHz)]</u>	Axial <u>6.0 Lbs MIN</u>	Moisture Resistance - MIL-STD-202, Method 106, except Step 7b (Vibration) shall be omitted
Corona, 70,000 Ft (VRMS MIN) <u>250</u>	Radial <u>4.0 In/Øz MIN</u>	Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray
Dielectric Withstanding Voltage (VRMS MIN) <u>1000</u>	Weight (Grams) <u>4.7</u>	
Contact Resistance (Milliohms MAX)		
Center Contact <u>4.0</u>		
Outer Contact <u>2.0</u>		
RF High Potential (VRMS MIN @ 5 MHz) <u>670</u>		
I.R.(Megohms) <u>5000</u>		

Technical drawing of an SMA Plug to Plug Adapter. The drawing shows two SMA connectors facing each other. Key dimensions are:

- Overall length: $.875 \pm .035$ [22.23 ± 0.89]
- Hex diameter: $.312$ HEX [7.92]
- Distance from centerline to the start of the hex: $.125$ [3.18]
- Distance from the start of the hex to the reference plane: $.640$ [16.26]
- Distance between the two reference planes: $.640$ [16.26]
- Distance from the end of the hex to the reference plane: $.218$ [5.54] (ACROSS FLATS)

 The drawing includes two vertical reference planes labeled "REF PLANE".

HOUSING COUPLING NUT	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	PASSIVATE PER SAE-AMS-2700
DIELECTRIC	TFE FLUOROCARBON PER ASTM-D-1457	N/A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B 196, ALLOY C17300, CONDITION H OR BRASS PER ASTM-B-16	GOLD PLATE PER MIL-G-45204 OVER NICKEL PLATE PER AMS-QQ-N-290
RETAINING RING	BERYLLIUM COPPER PER ASTM-B 194, ALLOY C17200, CONDITION H	N/A
GASKET	SILICONE RUBBER PER ZZ-R-765	N/A
COMPONENT	MATERIAL	FINISH

1663189-1
PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C.C.THOMAS 8-7-09	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: INCHES		CHK D. WILSON 8-7-09	NAME SMA PLUG TO PLUG ADAPTER	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD D. WILSON 8-7-09	SIZE A2	
0 PLC ± -		PRODUCT SPEC	CAGE CODE 00779	DRAWING NO 1663189
1 PLC ± -		APPLICATION SPEC	RESTRICTED TO	
2 PLC ± -			SCALE 5:1	SHEET 1 of 1
3 PLC ± .005 [0.13]			REV A	
4 PLC ± -				
ANGLES ± 1°				
MATERIAL SEE TABLE	FINISH SEE TABLE	WEIGHT -	CUSTOMER DRAWING	

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