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THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

LOC

DIST

REVISIONS

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P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASED PER ECO 11-000477	1-11-11	BM	CT

ELECTRICAL

MECHANICAL

ENVIRONMENTAL

NOMINAL IMPEDANCE (Ohms): 50  
 FREQUENCY RANGE (GHz): DC to 5  
 VOLT RATING (VRMS MAX) @ SEA LEVEL: 250  
 INSERTION LOSS (dB MAX):  
 .30 @ 1.5 GHz  
 RF LEAKAGE (dB MIN):  
 -55 BETWEEN 2 AND 3 GHz  
 DWV (VRMS MIN) @ SEA LEVEL: 750  
 INSULATION RESISTANCE (MEGOHMS MIN): 1000  
 RF HI-POT (VRMS MIN @ 5 MHz):  
 700 (@ sea level)  
 CORONA 70000 FT (VRMS MIN): 250

INTERFACE DIMENSIONS: PER MIL-STD-348  
 CENTER CONTACT CAPTIVATION (LBS): N/A  
 FORCE TO ENGAGE/DISENGAGE (LBS MAX) : 14  
 DURABILITY (CYCLES MIN):  
 500 @ 12 CYCLES PER MINUTE MAX

TEMPERATURE RANGE (°C):  
 -65 to 165  
 VIBRATION: PER MIL-STD-202, METHOD 204, CONDITION D  
 SHOCK: PER MIL-STD-202, METHOD 213, CONDITION B  
 THERMAL SHOCK: PER MIL-STD-202, METHOD 107, CONDITION B, HIGH TEMP +85  
 CORROSION: PER MIL-STD-202, METHOD 101, CONDITION B

1 MATERIALS:  
 HOUSING AND SLEEVE: BRASS PER ASTM B 16  
 CONTACT AND RETAINING RING: BERYLLIUM COPPER PER ASTM B 196  
 DIELECTRIC: TEFLON PER ASTM D 1710

2 FINISHES:  
 HOUSING, SLEEVE AND RETAINING RING:  
 .000050 MIN GOLD PER MIL-G-45204 OVER  
 .000050 MIN COPPER PER ASTM B 571  
 CONTACT: .000050 MIN GOLD PER MIL-G-45204 OVER .000050 MIN NICKEL PER QQ-N-290

Technical drawing of an SMB plug. The side view shows a cylindrical component with a threaded section at the top. Dimensions include a length of .377, a diameter of .072, and a diameter of .050 ± .002. The top view shows a circular face with a diameter of .562 and a bolt circle diameter of .437. There are 8 threaded holes arranged in a circle, with a note: "2-56 UNC-2B THREADED HOLES 8 PLC, SPACED EQUALLY ON .437 BOLT CIRCLE". Other dimensions include .010<sup>+0.000</sup>/<sub>-.003</sub> and .062<sup>+0.003</sup>/<sub>-.002</sub>.

2101323-1

PART NUMBER

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		Tyco Electronics		Tyco Electronics Corporation					
INCHES		0 PLC	±-	DWN	B. MOYER	04JAN2011	Harrisburg, PA 17105-3608				
		1 PLC	±-	CHK	C.C. THOMAS	1-11-11	NAME SMB, PLUG, STRIPLINE, FLANGE MOUNT				
		2 PLC	±.01	APVD	B. MOYER	04JAN2011					
		3 PLC	±.005	PRODUCT SPEC	-	APPLICATION SPEC		-			
		4 PLC	±.0005	WEIGHT	-	SCALE		4:1			
MATERIAL		FINISH		SIZE		CAGE CODE		DRAWING NO		RESTRICTED TO	
1		2		A300779		C-2101323		-		-	
CUSTOMER DRAWING				SCALE		SHEET		OF		REV	
				4:1		1		1		A	

1470-19 (2/09)

Pro/ENGINEER DRAWING