

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P2T-500M20G-50-T-5-12-SFF-I IS A TERMINATED SINGLE POLE, TWO THROW SWITCH THAT OPERATES FROM 500MHz TO 20.0GHz WHICH HANDLES +23dBm CW INPUT POWER. THE PORT TO PORT ISOLATION IS 50dB MINIMUM. THIS MODEL HAS LOW INSERTION LOSS WHILE STILL OFFERING A FAST SWITCHING SPEED OF 50nsec MAXIMUM.

SPECIFICATIONS:

- FREQUENCY:..... 500 MHz TO 20.0 GHz
- INSERTION LOSS:..... 2.8dB Maximum
- INPUT POWER:..... +23dBm CW MAXIMUM
- VSWR: 1.9:1 Maxumim
- ISOLATION:.....50dB Minimum
- SWITCHING SPEED:..... 50nsec Maximum
- CONTROL: TTL Logic "0" = J1 to J2
TTL Logic "1" = J1 to J3
- DC VOLTAGE..... 80mA @ +5VDC Typical
80mA @ -12VDC Typical
- CONNECTORS..... SMA FEMALE
- POWER AND CONTROL EMI FILTERED SOLDER PINS
- SIZE:..... 1.00 X 1.00 X .500 (H)
- WEIGHT:..... 1.5 OZ. TYPICAL
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

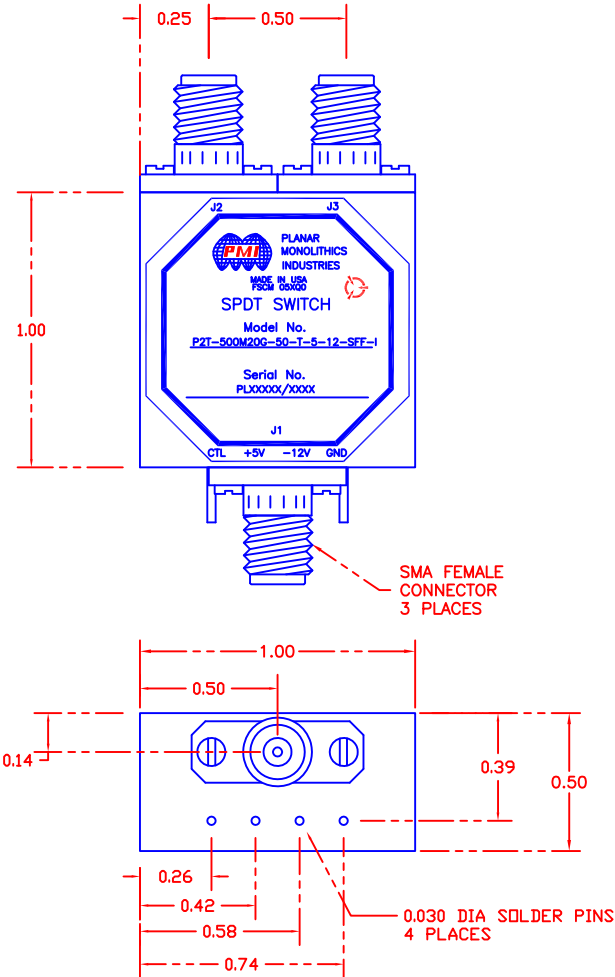
- TEMPERATURE:..... -45°C TO +90°C (OPERATING)
-54°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- SALT FOG MIL-STD-202F, METHOD 101D-EST COND. B
- THERMAL SHOCK..... MIL-STD-202F, METHOD 107D COND. A
- FUNGUS MIL-STD-810F, METHOD 508.5
- EMI / EMC..... MIL-STD-461E

Note: Environmental testing and ESS will be met, but actual testing is not done by PMI
Actual screening is available for an additional charge.

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/8/10	
	B1	MOUNTING HOLE 0.200 DEEP	9/9/10	
	B2	ECN# 14-0173	11/6/14	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			REV.
DRAWN <i>K.M</i>		9/9/10	PRODUCT FEATURE P2T-500M20G-50-T-5-12-SFF-I SP2T SWITCH			B2
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27013342-B	
ISSUED			SCALE N:S		SHEET 1 OF 1	