

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P2T-500M18G-50-T-SFF-I-OPT7D78D5-PM IS A PHASE & AMPLITUDE MATCHED, TERMINATED SINGLE POLE, TWO THROW SWITCH THAT IS OPTIMIZED FOR 7.7GHz TO 8.5GHz 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.

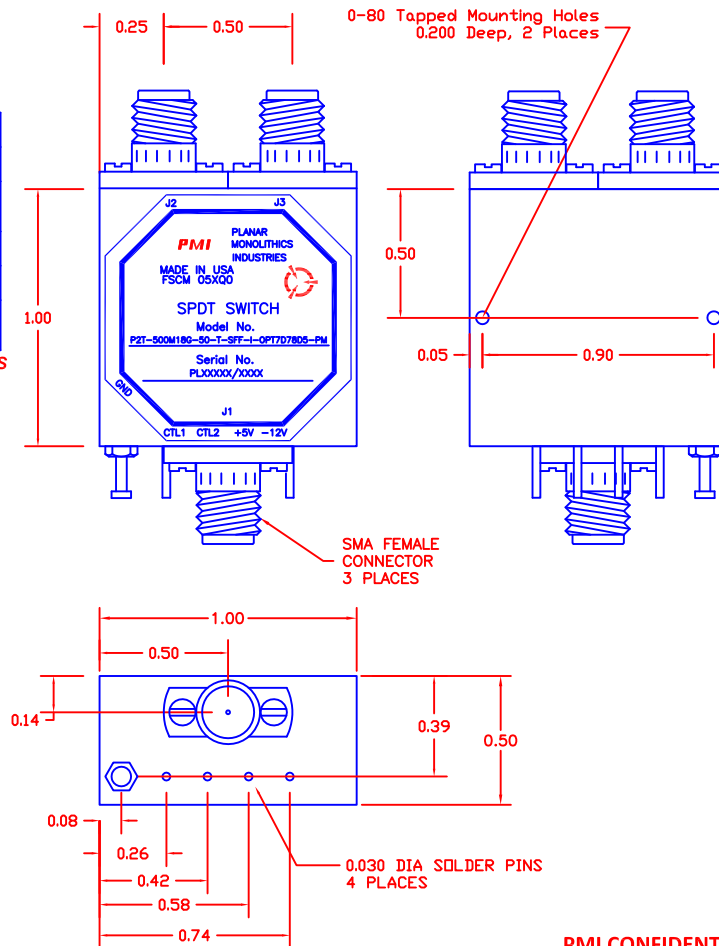
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/25/14	KM

SPECIFICATIONS:

- FREQUENCY: 7.7 TO 8.5 GHz
- INSERTION LOSS: 1.2dB Maximum
- ISOLATION: 50dB Minimum
- VSWR: 1.9:1 Maximum
- INPUT POWER: +23dBm CW MAXIMUM
- SWITCHING SPEED: 50nsec Maximum
- CONTROL (2 LINE): TTL Logic "0" = INSERTION LOSS
TTL Logic "1" = ISOLATION
- DC VOLTAGE: 80mA @ +5VDC Typical
80mA @ -12VDC Typical
- AMPLITUDE BALANCE: -0.5dB MAX. (J1-J2 & J1-J3)
- PHASE BALANCE: ± 3.0° MAX. (J1-J2 & J1-J3)
- CONNECTORS: SMA FEMALE
- POWER AND CONTROL - SOLDER PINS
- SIZE: 1.0" X 1.0" X 0.5" (H)
- WEIGHT: 1.5 OZ. TYPICAL
- SEALING: EPOXY SEALED
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

LOGIC TABLE		
CTL1	CTL2	FUNCTION
0	0	*INSERTION LOSS (ALL ON)
0	1	J1 - J2
1	0	J1 - J3
1	1	ISOLATION (ALL OFF)

*NOT TO SPECIFIED VALUES



PMI CONFIDENTIAL AND PROPRIETARY

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
- THERMAL SHOCK: MIL-STD-202F, METHOD 107D COND. A

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

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>K. MASON</i>		9/25/15	PRODUCT FEATURE		
CHECKED			P2T-500M18G-50-T-SFF-I-OPT7D78D5-PM		
ISSUED			SP2T SWITCH		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	PRELIMINARY	-		
SCALE N:S		SHEET		1 OF 1	

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION