

DESCRIPTION

PMI MODEL P2T-10M6G-35-R-5V-SFF-HIP100W IS A REFLECTIVE, SINGLE POLE, TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 10 MHz TO 6000 MHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER LEVEL OF 100 WATTS PULSED WHILE PROVIDING SWITCHING SPEEDS OF 100 ns MAXIMUM AND REQUIRES A SINGLE +5 VDC SUPPLY. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10 TO 6000 MHz
- INSERTION LOSS: ----- 2.0 dB TYPICAL
- ISOLATION: ----- 35 dB TYPICAL
25 dB MINIMUM
- VSWR: ----- 2.0:1 MAXIMUM
- SWITCHING SPEED: ----- 100 ns TYPICAL
(50% TTL TO 10%/90% RF)
- CONTROL LOGIC: ----- TTL LOGIC (SEE LOGIC TABLE)
- RF CONNECTORS: ----- SMA FEMALE REMOVABLE
- POWER SUPPLY: ----- +5 V @ 45 mA MAXIMUM
- RF POWER (OPERATING): ----- 100 WATTS PULSED
(10% DUTY CYCLE, 20 μ s PULSE WIDTH)
- SIZE: ----- 1.20" (L) x 1.00" (W) x 0.50" (H)
- 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,
BOTTOM TO REMAIN UNPAINTED (SILVER PLATED)

LOGIC TABLE

CTL	J1-J2	J1-J3
0	ON	OFF
1	OFF	ON

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

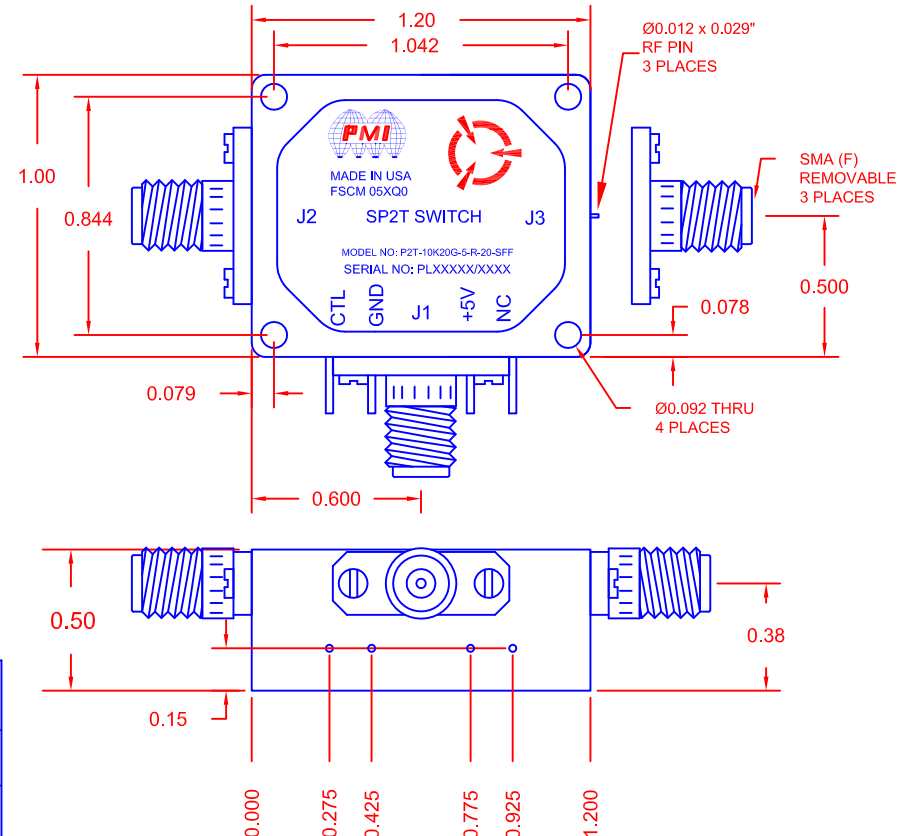
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/16/15	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		11/16/15	PRODUCT FEATURE P2T-10M6G-35-R-5V-SFF-HIP100W			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0		-
			SCALE	N:S	SHEET	1 OF 1
			PRELIMINARY			