

DESCRIPTION:

PMI MODEL NUMBER P3T-500M18G-60-T-SFF-LV IS A SINGLE POLE, THREE THROW NON-REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 0.5GHZ TO 18.0GHZ FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS, HIGH ISOLATION, AND FAST SWITCHING SPEED. THIS MODEL OFFERS LOW VIDEO TRANSIENT PERFORMANCE OF 20MV MAXIMUM.

SPECIFICATIONS:

- FREQUENCY: 0.5 GHz TO 18.0 GHz
- INSERTION LOSS: 4.4dB MAXIMUM
- ISOLATION: 60dB MINIMUM
- VSWR: 2.0:1 MAXIMUM
- SPEED: ON/OFF - 50ns MAXIMUM

- POWER INPUT (OPERATING): 200mW CW MAXIMUM
- VIDEO LEAKAGE: 20mV @ 350MHZ BW MAXIMUM (1) (2)
- CONTROL: TTL LOGIC - "0" = "LOW LOSS"
TTL LOGIC - "1" = "ISOLATION"
PINS E1, E2, and E3 ARE PULLED LOW "0"
- POWER SUPPLY: +5V @ 110 mA NOMINAL
-12V @ 90 mA NOMINAL
- RF CONNECTORS: SMA FEMALE CONNECTORS
- DC CONNECTORS: SOLDER PINS
- SEALING: HERMETIC
- 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.

- (1) After 50 nsec no video transient will be present
- (2) - Video filter is required on input and output ports.

ENVIRONMENTAL RATINGS:

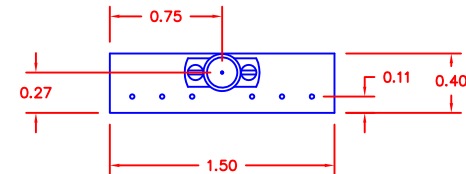
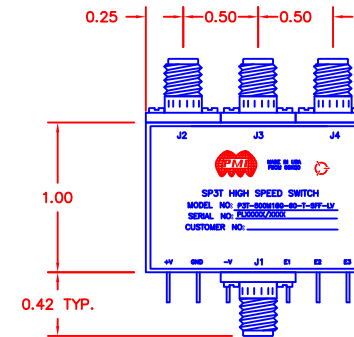
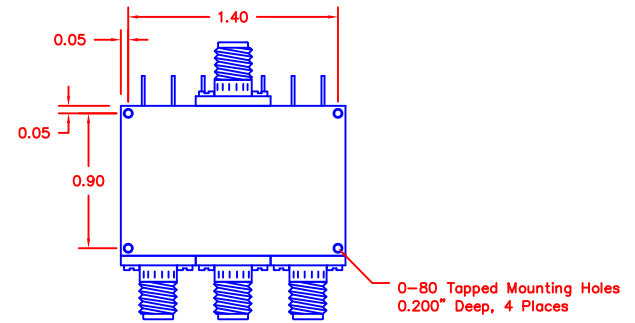
- TEMPERATURE: -54°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. G
- SALT FOG: MIL-STD-202F, METHOD 101D+EST COND. B
- FUNGUS: MIL-STD-810F, METHOD 508.5

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

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	09/29/13	
	2	REVISED INSERTION LOSS	03/10/14	



PMI CONFIDENTIAL AND PROPRIETARY

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>ANG</i>		09/29/13	PRODUCT FEATURE			
CHECKED			P3T-500M18G-60-T-SFF-LV			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27020001	2
			SCALE	N:S		SHEET
					1 OF 1	