

DESCRIPTION:

PMI MODEL NUMBER P3T-500M18G-60-T-SFF-LV-SP 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 100mV 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: 100mV @ 350MHZ BW MAXIMUM (1) (2)
- CONTROL: TTL LOGIC - "0" = "LOW LOSS"
TTL LOGIC - "1" = "ISOLATION"
PINS E1, E2, and E3 ARE PULLED LOW "0"
PINS E1, E2, and E3 ARE PULLED LOW "0"
***SURGE PROTECTION INCLUDED ON TTL LINES**
- POWER SUPPLY: +5V @ 110 mA NOMINAL
-12V @ 90 mA NOMINAL
- RF CONNECTORS: SMA FEMALE CONNECTORS
- DC CONNECTORS: SOLDER PINS
- SEALING: UNLESS OTHERWISE SPECIFIED, PMI WILL SUPPLY EPOXY SEAL
- 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.

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

ENVIRONMENTAL RATINGS:

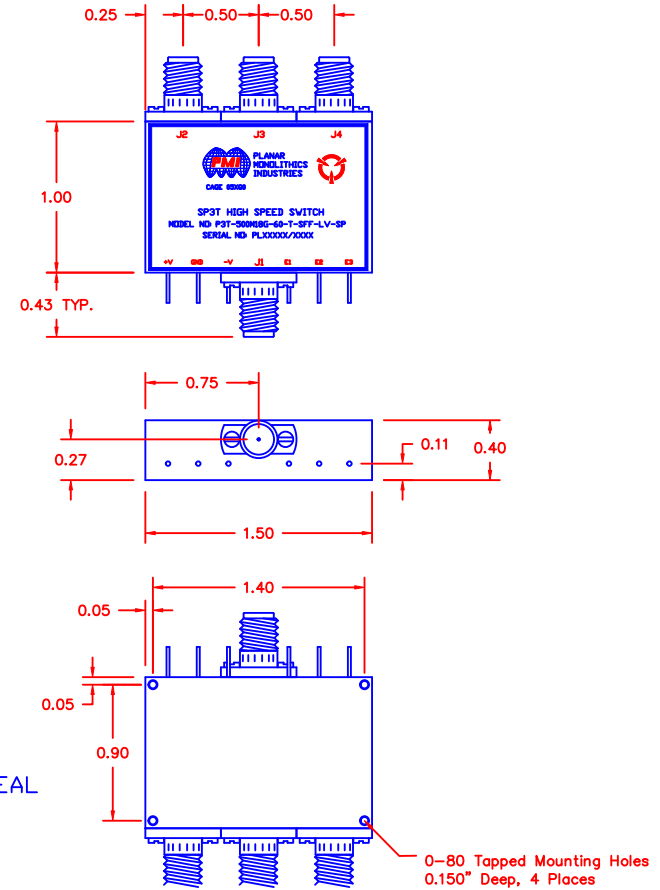
- TEMPERATURE: -54°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. G
- SALT FOG: MIL-STD-202F, METHOD 101D+EST COND. B
- FUNGUS: MIL-STD-810F, METHOD 508.5

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

NOTE: CHANGES TO DRAWING OR SPECIFICATIONS MUST BE APPROVED BY THE END USER

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/08/18	
	A3	ECN # 20-0125	7/6/20	
	C1	ECN # 25-0284	10/14/25	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>ANG</i>		09/29/13	PRODUCT FEATURE			
CHECKED <i>EMF</i>		5/19/17	P3T-500M18G-60-T-SFF-LV-SP			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27032821	C1
			SCALE	N:S	SHEET	1 OF 1