DESCRIPTION

PMI MODEL: P1T-2G18G-60-T-SFF-XSML IS AN ABSORPTIVE, SINGLE POLE SINGLE THROUGH RF SWITCH THAT OPERATES FROM 2 TO 18 GHz. LOW INSERTION LOSS, FAST SWITCHING SPEED, HIGH INPUT OPERATING POWER AND AN ULTRA SMALL PACKAGE ARE KEY FEATURES OFFERED BY THIS MODEL.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	8/16/18	
	1	OFF VSWR	8/20/18	

MECHANICAL OUTLINE

SPECIFICATIONS

• FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz

• INSERTION LOSS: ------------------- 1.3 dB MAX (2.0 TO 4.0 GHz)
1.5 dB MAX (4.0 TO 8.0 GHz)

2.0 dB MAX (8.0 TO 12.0 GHz)

2.1 dB MAX (12.0 TO 18.0 GHz)

• ISOLATION: ---- 60 dB MIN

• POWER HANDLING (25 DEG C): -- 1.5W CW, 20W PEAK (1us MAX PW, 7.5% DC)

• VSWR: ----- 2.0:1 MAX (ON & OFF)

ATTENUATION FLATNESS: ---- ±1 dB MAX

ATTENUATION ACCURACY: ----- ±1 dB MAX

• P1dB LIMITING THRESHOLD: ----- +5 dBm MIN

• FLAT LEAKAGE: ----- +12 dBm MAX³

• SWITCHING SPEED: ----- 16 ns @ 50% TTL TO 10% RF MAX

16 ns @ 50% TTL TO 90% RF MAX

• CONTROL LOGIC: ----- TTL COMPATIBLE - "0" = ON, "1" = OFF

• SWITCHING RATE: ----- 5 MHz MAX PRF @ 50% DC

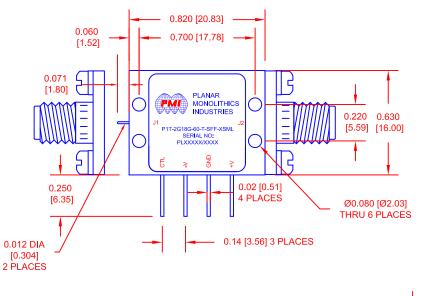
• DC CONSUMPTION: ----- +4.5 TO +5.5 V @ 50mA MAX

-12 TO -15 V @ 30mA MAX

• DC POWER: ----- 0.45 W MIN

RF CONNECTORS: ----- REMOVABLE SMA FEMALE

• FINISH: ----- PAINTED BLUE





ENVIRONMENTAL RATINGS

• TEMPERATURE: ----- -50 °C TO +90 °C (OPERATING)

-55 °C TO +125 °C (STORAGE)

• HUMIDITY: ----- MIL-STD-202-F, METHOD 103B, COND B

• SHOCK: ------ MIL-STD-202-F, METHOD 213B, COND B

VIBRATION: ----- MIL-STD-202-F, METHOD 204D, COND B

• ALTITUDE: ----- MIL-STD-202-F, METHOD 105C, COND B

TEMPERATURE CYCLE: ----- MIL-STD-202-F, METHOD 107D, COND A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

DIMENSIONS ARE IN INCHES AND [mm]
TOLERANCES:
X.XX ±0.020 [0.508]
X XXX +0.010 [0.254]

X.XXX ±0.010 [0.254]

PLANAR MONOLITHICS INDUSTRIES, INC. 7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA

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

SCALE N:S

APPROVALS DATE

DRAWN

99H

10/08/16

CHECKED

SIZE FSCM NO.

ISSUED

PRODUCT FEATURE
P1T-2G18G-60-T-SFF-XSML

SP1T RF SWITCH

CM NO. DWG NO. PRELIMINARY

USS SHEET 1 OF 1

0.325

[8.26]

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY