

## DESCRIPTION

THE MODEL P1T-2G18G-70-R-515-SFF IS A HIGH SPEED, SINGLE POLE, SINGLE THROW, REFLECTIVE SWITCH WITH AN OPERATING FREQUENCY RANGE OF 2.0 TO 18.0 GHz. THIS SWITCH OFFERS 70 dB ISOLATION WITH A LOW INSERTION LOSS OF 2.2 dB WITH A RISE & FALL TIME OF 20 ns MAXIMUM. THE PACKAGE MEASURES 0.69" x 0.53" x 0.22" AND IS SUPPLIED WITH A MOUNTING PLATE AS SHOWN.

## SPECIFICATIONS:

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- INSERTION LOSS: 2.2 dB MAXIMUM
- ISOLATION: 70 dB MINIMUM
- VSWR (ON/OFF): 2.0:1 MAXIMUM
- SWITCHING SPEED: 20 ns MAXIMUM  
(10 RF TO 90% RF & 90% RF TO 10% RF)
- OPERATING POWER: +15dBm MAXIMUM
- CONTROL: TTL LOGIC "0" = INSERTION LOSS  
TTL LOGIC "1" = ISOLATION
- POWER SUPPLY: +5V & -15 VDC
- CONNECTORS:
  - RF: SMA FEMALE
  - CONTROL: SOLDER PIN
- SIZE: (L) 0.69" X (W) 0.53" X (H) 0.22"
- 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.
- SEALING: EPOXY SEALED

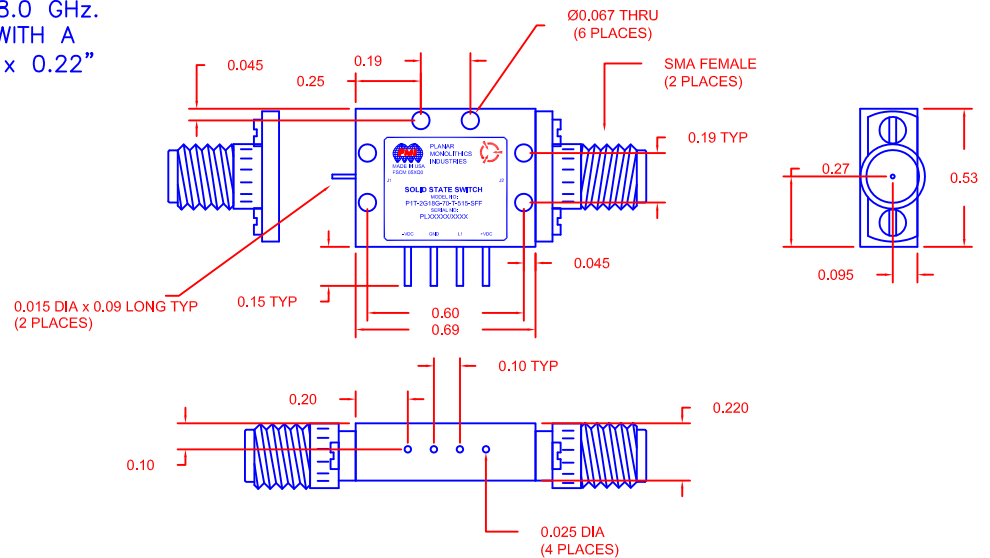
## ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°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. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

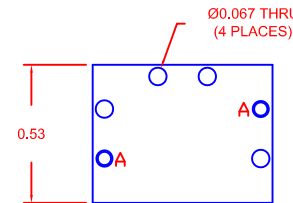
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY (-QF)	5/5/15	K.M.



MOUNTING PLATE SUPPLIED



A = 0-80 TAPPED THRU (2 PLACES)

PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>K. MASON</i>		5/5/15	PRODUCT FEATURE		
CHECKED			P1T-2G18G-70-R-515-SFF		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1