

## DESCRIPTION

THE MODEL P3T-2G18G-70-T-SFF IS A 1 WATT SP3T SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. IT HAS 70 dB MIN ISOLATION AND 3dB MAX INSERTION LOSS

## SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- INSERTION LOSS: 3 dB MAX
- VSWR (ALL PORTS): 2.0:1 MAX
- ISOLATION: 70 dB MIN
- SWITCHING SPEED: 150 ns MAX
- INPUT POWER: +/- 20 dBm MAX
- RF SURVIVAL POWER: 1 W MIN  
(1 us, 0.1% DUTY CYCLE PULSE)
- SWITCH TYPE: ABSORPTIVE
- DC POWER: +12 V @ 160 mA MAX  
-12 V @ 85 mA MAX
- CONTROL SIGNALS: TTL/CMOS COMPATIBLE. LOGIC 1 IS ON.
- NUMBER OF CONTROL LINES: 3
- CONTROL LOGIC: INVERTING
- WEIGHT: 30 GRAMS (1.05 oz)
- FINISH: PAINTED BLUE

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -54 °C TO +85 °C (OPERATING)  
-62 °C TO +86 °C (STORAGE)
- PRESSURE: SHALL MEET ALL PERFORMANCE REQUIREMENTS WHEN OPERATING IN A DRY NITROGEN ATMOSPHERE AT PRESSURE OF 100 kPa OR AIR AT ATMOSPHERIC PRESSURE
- SHOCK: MIL-STD-901D
- VIBRATION: MIL-STD-167-1, WITHOUT DEGRADATION IN PERFORMANCE FOR FREQUENCIES UP TO 25Hz.
- SALT AND FOG: MIL-STD-810 METHOD 509

SHOCK TABLE

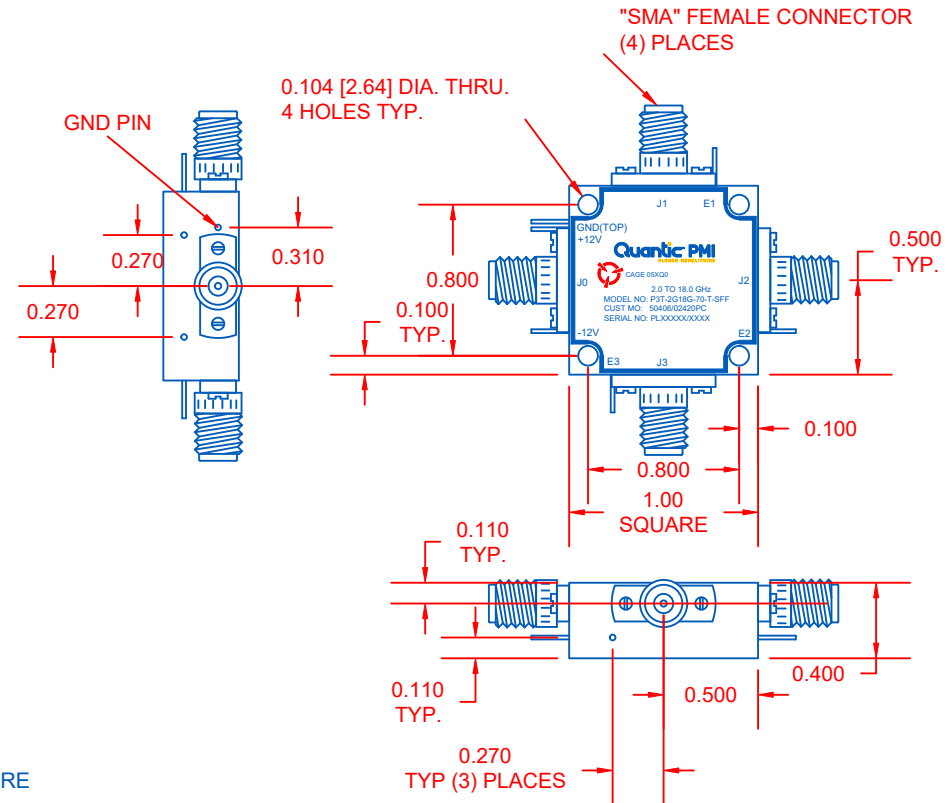
SHORT DURATION	360 g, 1.6 ms FULL SINE.
MEDIUM DURATION	150 g, 6 ms HALF SINE.
LONG DURATION	130 g PEAK TO PEAK, 17 ms, FULL SINE 30 g PEAK TO PEAK, 40 ms, FULL SINE

LOGIC TABLE

CONTROL INPUT			RF PORT CONNECTED TO COMMON PORT (J0)
E1	E2	E3	
1	0	0	J1
0	1	0	J2
0	0	1	J3

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/10/2019	



PMI CONFIDENTIAL AND PROPRIETARY

7309-A GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: (301)-662-5019, FAX: (301)-662-1731  
WEB: www.quanticmpmi.com  
EMAIL: sales@quanticmpmi.com  
ISO 9001 CERTIFIED

**Quantic PMI**  
PLANAR MONOLITHICS

APPROVALS		DATE		TITLE	
DRAWN GJR		05/10/19		LABEL/OUTLINE P3T-2G18G-70-T-SFF SP3T SWITCH (2.0 GHz TO 18 GHz)	
REDRAWN				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO. 27036580	REV. A1
SCALE N:S				SHEET 1	1 OF 1

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