DESCRIPTION

PMI MODEL: P4T-6G18G-27-T-SFF IS A SINGLE POLE FOUR THROW ABSORPTIVE SWITCH OPERATING OVER THE 6.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 27 dB ISOLATION WHILE MAINTAINING A MAXIMUM INSERTION LOSS OF 4.5 dB AND A MAXIMUM VSWR OF 2.3:1. THIS COMPACT HOUSING IS OUTFITTED WITH SMA FEMALE CONNECTORS.

	REVISIONS							
ZONE	REV.	DESCRIPTION	DATE	APPROVED				
	A1	ORIGINAL RELEASE	10/23/17					

SPECIFICATIONS

SFECII ICATIONS	
FREQUENCY RANGE:	6.0 TO 18.0 GHz
INSERTION LOSS:	2.5 dB MAX @ 6.0 GHz TO 8.0 GHz 3.7 dB MAX @ 8.0 GHz TO 12.4 GHz 4.8 dB MAX @ 12.4 GHz TO 18.0 GHz
• ISOLATION (ON/ALL PORTS OFF): -	45 dB MIN @ 6.0 GHz TO 8.0 GHz 27 dB MIN @ 8.0 GHz TO 18.0 GHz
• VSWR:	2.3:1 MAX @ 6.0 GHz TO 12.4 GHz 2.0:1 MAX @ 12.4 GHz TO 18.0 GHz
RF IMPEDANCE:	50 Ω
SWITCHING SPEED (ON/OFF):	500 ns MAX (FROM 50% TTL TO 90%/10% RF VOLTAGE)
POWER HANDLING:	500 mW MAX CW
POWER SUPPLY:	+5.0 VDC ±5% @ 100 mA MAX -15.0 VDC ±5% @ 60 mA MAX
SURVIVAL POWER:	OFF PORT: 1 W AVERAGE, 10 W PEAK* ON PORT: 1 W AVERAGE, 75 W PEAK* COMMON PORT: 1 W AVERAGE, 75 W PEAK*
CONTROL INPUT:	SCHOTTKY TTL, ONE UNIT LOAD ²
	LOGIC "0" = -0.3 V TO +0.8 V FOR PORT ON (LOW LOSS STATE) LOGIC "1" = +2.0 V TO +5.0 V FOR PORT OFF (ISOLATION STATE)
• SIZE:	24.54 mm x 24.54 mm x 9.30 mm 0.996" x 0.996" x 0.366" (EXCLUDING CONNECTORS)
• WEIGHT:	45 g [1.59 oz] MAX
CONNECTORS:	RF: SMA FEMALE IAW MIL-PRF-39012 CONTROL/POWER: SOLDER TERMINALS
• FINISH: *: 1 µS MAXIMUM PULSE WIDTH	PAINTED BLACK (MOUNTING SURFACE FREE OF PAINT/GOLD PLATED)

LOGIC TABLE (J1: COMMON PORT)									
PORT	TTL INPUT LEVEL				J1-J2	J1-J3	J1 - J5	11_16	
TORT	E2	E3	E5	E6	01-02	01-00	01-00	N ISOLATION ISOLATION	
J2	0	1	1	1	INSERTION LOSS	ISOLATION	ISOLATION	ISOLATION	
J3	1	0	1	1	ISOLATION	INSERTION LOSS	ISOLATION	ISOLATION	
J5	1	1	0	1	ISOLATION	ISOLATION	INSERTION LOSS	ISOLATION	
J6	1	1	1	0	ISOLATION	ISOLATION	ISOLATION	INSERTION LOSS	
ALL OFF	1	1	1	1	ISOLATION				

ENVIRONMENTAL RATINGS

 2 : A UNIT LOAD IS 2.0 mA SINK CURRENT AND 50 μA SOURCE CURRENT

TEMPERATURE:	-25 °C TO +85 °C (OPERATING) -30 °C TO +125 °C (NON-OPERATING)
• ALTITUDE:	50,000 FEET
VIBRATION:	DOUBLE AMPLITUDE: 10 mm @ 2 TO 5 Hz DOUBLE AMPLITUDE: 5 mm @ 5 TO 10 Hz
• SHOCK:	15G, 11 ms
• HUMIDITY:	0~100% RELATIVE HUMIDITY
• SALT DAMAGE:	SHALL WITHSTAND SALT DAMAGE

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC. 7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA TEL: (301)-662-5019, FAX: (301)-662-1731

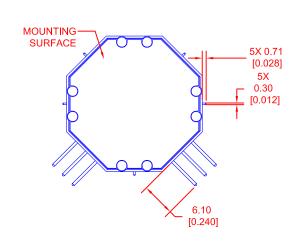
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

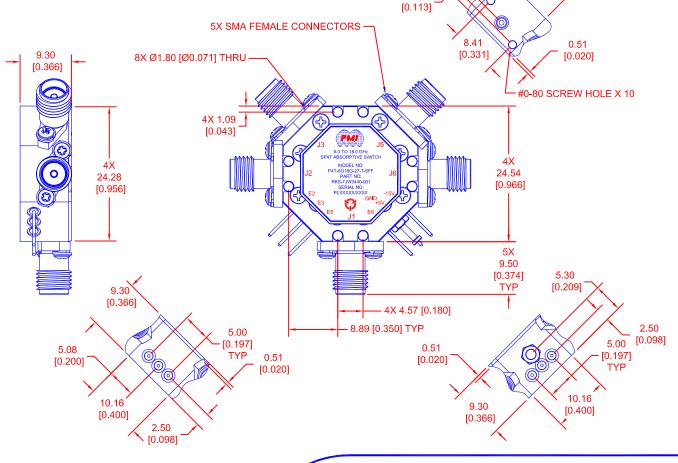
ISO 9001 CERTIFIED



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				PRODUCT FEATURE					
APPROVALS	DATE	P4T-6G18G-27-T-SFF							
M. Berry	09/05/17	6.	6.0 to 18.0 GHz Single-Pole Four-Throw Absorptive Switch						
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
toours.		Α	05X	Q0	PRELIMINARY				-
ISSUED		SCALE	N:S				SHEET	1 OF 2	

MECHANICAL OUTLINE





NOTES:

- 1. MARKING TO BE DONE WITH A LABEL.
- 2. SMA CONNECTORS TO BE IAW MIL-PRF-39012.
- 3. MOUNTING SURFACE TO BE FREE OF PAINT.

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

ALL DIMENSIONS ARE IN mm [INCH]

TOLERANCES:

BELOW 4 mm [0.16"] ± 0.3 mm [0.010"] 4 mm TO 16 mm [0.16" TO 0.63"] ± 0.5 mm [0.020"] ABOVE 16 mm [0.63"] ± 0.7 mm [0.030"]

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PLANAR MONOLITHICS INDUSTRIES. INC

2.64 [0.104]

> 10.16 [0.400]

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2.87

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