DESCRIPTION

PMI MODEL: P16T-100M40-100-T-DEC IS A SINGLE POLE 16 THROW SOLID STATE ABSORPTIVE SWITCH OPERATING OVER THE 100 MHz TO 40 GHz FREQUENCY RANGE. THIS MODEL OFFERS A TYPICAL INSERTION LOSS OF 12.5 dB WHILE MAINTAINING A TYPICAL ISOLATION OF 70 dB.

SPECIFICATIONS

FREQUENCY:	0.1 TO 40 GHz
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INSERTION LOSS: -—— 8.0 dB (0.1 TO 18 GHz) TYP

12.5 dB (18 TO 40 GHz) TYP

VSWR ON (IN/OUT): -2.5:1 (0.1 TO 18 GHz) TYP

3.0:1 (18 TO 40 GHz) TYP

VSWR OFF (OUT): -- 2.5:1 (0.1 TO 18 GHz) TYP 3.0:1 (18 TO 40 GHz) TYP

70 dB (0.1 TO 1 GHz) TYP **ISOLATION: -**

90 dB (1 TO 18 GHz) TYP 80 dB (18 TO 40 GHz) TYP

INPUT POWER: -20 dBm CW MAX

SWITCHING SPEED: -100 ns MAX

CONTROL SIGNAL: -TTL LOGIC - SEE LOGIC TABLE

DC VOLTAGE: -+5 V @ 1100 mA MAX

-12 V @ 720 mA MAX

RF CONNECTORS: -2.92 mm FEMALE

SIZE: -8.00" x 3.00" x 0.67"

PAINTED BLUE (MOUNTING FINISH: -

SURFACE FREE OF PAINT)

WEIGHT: -2 LBS

PIN	FUNCTION
- 1	CTRL 1
2	CTRL 2
3	CTRL 3
4	CTRL 4
5	N/C
6	+5 VDC
7	GND
8	GND
9	-12 VDC

C1 C2 C3 C4 CONNECTOR 0 0 0 0 J1 ON 0 0 0 1 J2 ON 0 0 1 1 J2 ON 0 0 1 1 J4 ON 0 1 1 0 J5 ON 0 1 1 0 1 J6 ON 0 1 1 0 1 J6 ON	LOGIC TABLE							
0 0 0 1 J2 ON 0 0 1 0 J3 ON 0 0 1 1 J4 ON 0 1 0 0 J5 ON 0 1 0 1 J6 ON	2 C3 C	2 (C2	C1				
0 0 1 0 J3 ON 0 0 1 1 J4 ON 0 1 0 0 J5 ON 0 1 0 1 J6 ON	0 0)	0	0				
0 0 1 1 J4 ON 0 1 0 0 J5 ON 0 1 0 1 J6 ON	0 1)	0	0				
0 1 0 0 J5 ON 0 1 0 1 J6 ON	1 ()	0					
0 1 0 1 J6 ON	1 1)	0					
	0 (1	0				
0 1 1 0 I7 ON	0 1		1	0				
0 1 1 0 37 01	1 (1	0				
0 1 1 1 J8 ON	1 1		1	0				
1 0 0 0 J9 ON	0 0)	0	1				
1 0 0 1 J10 ON	0 1)	0	1				
1 0 1 0 J11 ON	1 ()	0	1				
1 0 1 1 J12 ON	1 1)	0	1				
1 1 0 0 J13 ON	0 0		1	1				
1 1 0 1 J14 ON	0 1		1	1				
1 1 1 0 J15 ON	1 (1	1				
1 1 1 1 J16 ON	1 1		1	1				

ENVIRONMENTAL RATINGS

TEMPERATURE

•	TEMPERATURE:	-40 °C TO +85 °C (OPERATING)
		-65 °C TO +125 °C (STORAGE)
•	HUMIDITY:	MIL-STD-202, METHOD 103B COND. B
•	SHOCK:	MIL-STD-202, METHOD 213B COND. B
	VIBRATION:	MIL-STD-202, METHOD 204D COND. B

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

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

X.XXX ± 0.010

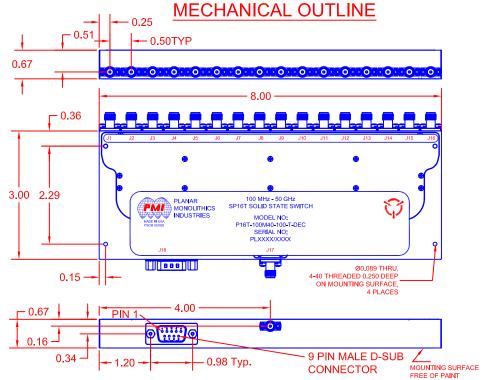
ALL DIMENSIONS

ARE IN mm [INCH]

TOLERANCES:

X.XX ± 0.020





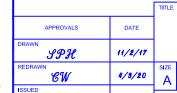
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FSCM NO.

05XQ0



PRODUCT FEATURE P16T-100M40-100-T-DEC

100 MHz to 40 GHz Single Pole 16 Throw

Absorptive Switch

PRELIMINARY

SCALE N:S 1 OF 1 SHEET

PMI CONFIDENTIAL AND PROPRIETARY