

## DESCRIPTION

THE MODEL P8T-100M40G-85-T-512-292FF-ROHS IS A HIGH SPEED, SINGLE POLE, EIGHT THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN 100ns. THE FREQUENCY RANGE IS 0.1 TO 40.0 GHz AND THIS SWITCH HAS OVER 70dB OF ISOLATION. THIS ITEM IS ROHS COMPLIANT.

## SPECIFICATIONS

- FREQUENCY RANGE:----- 0.1 TO 40.0 GHz
- ISOLATION:----- 90dB Min. (0.1 to 18GHz)  
80dB Min. (18 to 26.5GHz)  
70dB Min. (26.5 to 40GHz)
- INSERTION LOSS:----- 10dB MAX  
6dB Typ. (0.1 to 18GHz)  
7dB Typ. (18 to 26.5GHz)  
9.5dB Typ. (26.5 to 40GHz)
- VSWR IN/OUT:----- 2.5:1 Typ.
- OPERATING INPUT POWER:----- +20dBm CW
- SWITCHING SPEED:----- 100 ns Max.
- DC VOLTAGE AND CURRENT:----- +5VDC @ 180mA  
-12VDC @ 65mA
- CONTROL SIGNAL:----- EIGHT LINE TTL  
E1 CONTROLS J1-J2  
E2 CONTROLS J1-J3  
E3 CONTROLS J1-J4  
E4 CONTROLS J1-J5  
E5 CONTROLS J1-J6  
E6 CONTROLS J1-J7  
E7 CONTROLS J1-J8  
E8 CONTROLS J1-J9  
"0" INSERTION LOSS  
"1" ISOLATION
- CONNECTORS:----- 2.92mm (F)
- FINISH:----- GOLD PLATED
- SIZE:----- 4.0" X 1.5" X 0.4"

## ENVIRONMENTAL RATINGS

- TEMPERATURE:----- -55 °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

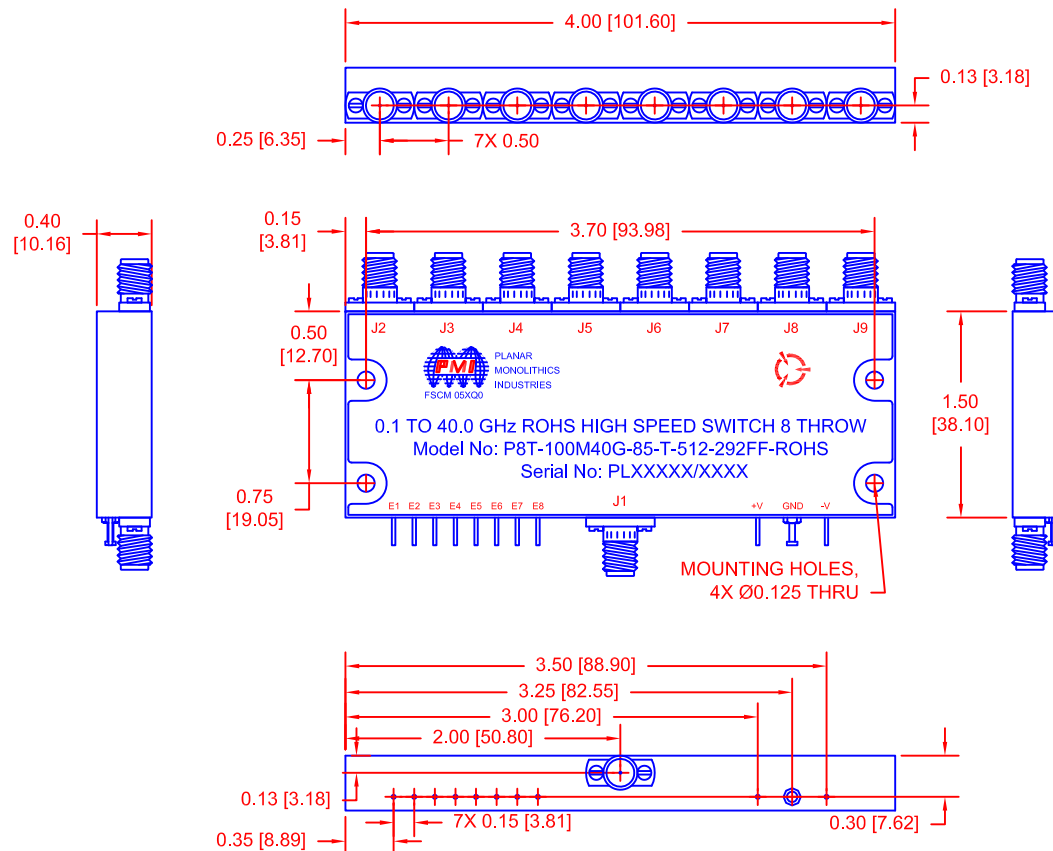
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/19/2017	

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	JGS	10/23/13	PRODUCT FEATURE			
REDRAWN	JPU	10/19/17	P8T-100M40G-85-T-512-292FF-ROHS			
ISSUED			0.1 TO 40.0 GHz ROHS HIGH SPEED SWITCH 8 THROW			
SIZE	FSCM NO.	DWG NO.				
A	05XQ0	27033460			A1	
SCALE	N:S	SHEET	1 OF 1			