



**TYPICAL CHARACTERISTICS
ON
P1T-200M18G-80-T-SFF-RL**

**THE MODEL P1T-200M18G-80-T-SFF-RL IS A HIGH SPEED, SINGLE POLE,
SINGLE THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN
30 ns. THE FREQUENCY RANGE IS 0.2 TO 18.0 GHz AND THIS SWITCH
HAS OVER 80 dB OF ISOLATION.**



June 28, 2016

DESIGNED BY: PMI ENGINEERING

TESTED & REPORTED BY: K. Mansfield



**TYPICAL CHARACTERISTICS
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OUTLINE DRAWING

REVISIONS			
DATE	DESCRIPTION	DATE	APPROVED
1	ORIGINAL RELEASE	8/11/18	

DESCRIPTION

THE MODEL P1T-200M18G-80-T-SFF-RL IS A HIGH SPEED, SINGLE POLE, SINGLE THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN 30ns. THE FREQUENCY RANGE IS 0.2 TO 18.0 GHz AND THIS SWITCH HAS OVER 80dB OF ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 0.2 TO 18 GHz
- INSERTION LOSS: 3.5dB MAXIMUM
- ISOLATION: 70dB MINIMUM (0.2 - 0.5GHz)
80dB MINIMUM (0.5 - 18GHz)
- VSWR: 2.0:1 MAXIMUM
- SWITCHING SPEED: 10 ns (RISE / FALL)
15 ns (DELAY ON)
30 ns (DELAY OFF)
- OPERATING POWER: +27dBm "HOT SWITCHING" MAXIMUM
- CONTROL: TTL LOGIC "0" = OFF
TTL LOGIC "1" = ON
- POWER SUPPLY: +5V @ 50 mA MAXIMUM
-12V @ 75 mA MAXIMUM
- CONNECTORS:
RF: SMA FEMALE
CONTROL: SOLDER PIN
- SIZE: (L) 1.0" X (W) 1.0" X (H) 0.5"
- FINISH: PAINTED BLUE

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

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -65°C TO +110°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

APPROVALS	DATE	FILE	PRODUCT FEATURE	REV.
S. Hammond	8/11/18		P1T-200M18G-80-T-SFF-RL	1

REV.	FROM REV.	QNTY	REV.
A	05XQ0	27029271	1

SHEET 1 OF 1

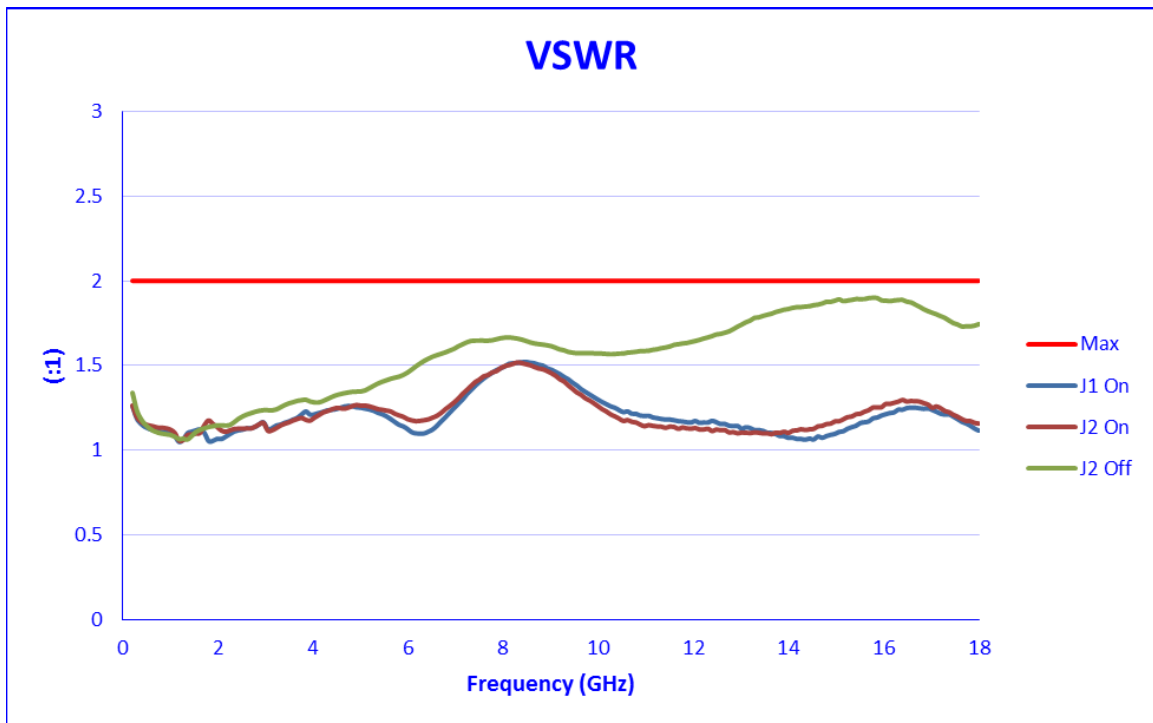
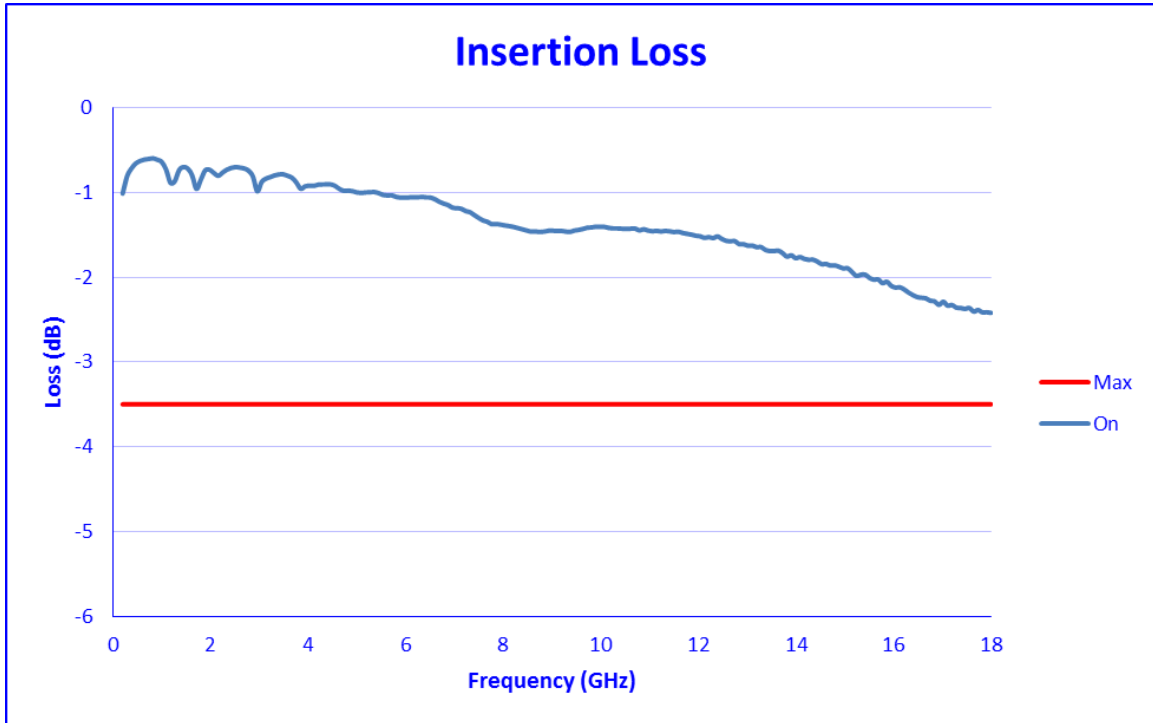


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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.2 - 18 GHz	0.2 - 18 GHz	
2	Insertion Loss:	3.5 dB Max	2.4 dB (See Plot)	
3	Isolation:	70 dB Min (0.2 - 0.5 GHz) 80 dB Min (0.5 - 18 GHz)	86.3 dB (See Plot)	
4	VSWR: (J1 - "On Only") (J2 - "On or "Off")	2.0:1 Max	1.9 :1 (See Plot)	
5	Operating Power:	+27 dBm "Hot Switching" Max	Pass	
6	Switching Speed:	10 ns (Rise / Fall) 15 ns (Delay On) 30 ns (Delay Off)	<5 ns <5 ns <10 ns	
7	Control:	TTL Logic "0" = Off TTL Logic "1" = On	Pass	
8	DC Supply:	+5 VDC @ 50 mA Max -12 VDC @ 75 mA Max	25 mA 37 mA	

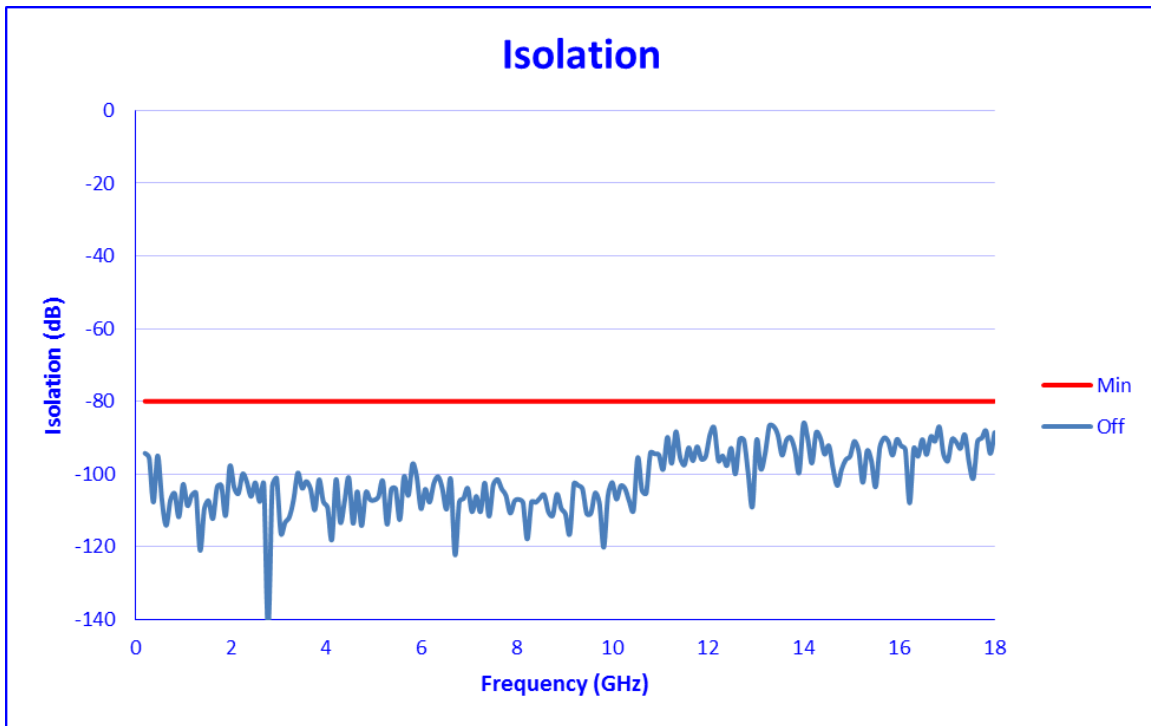


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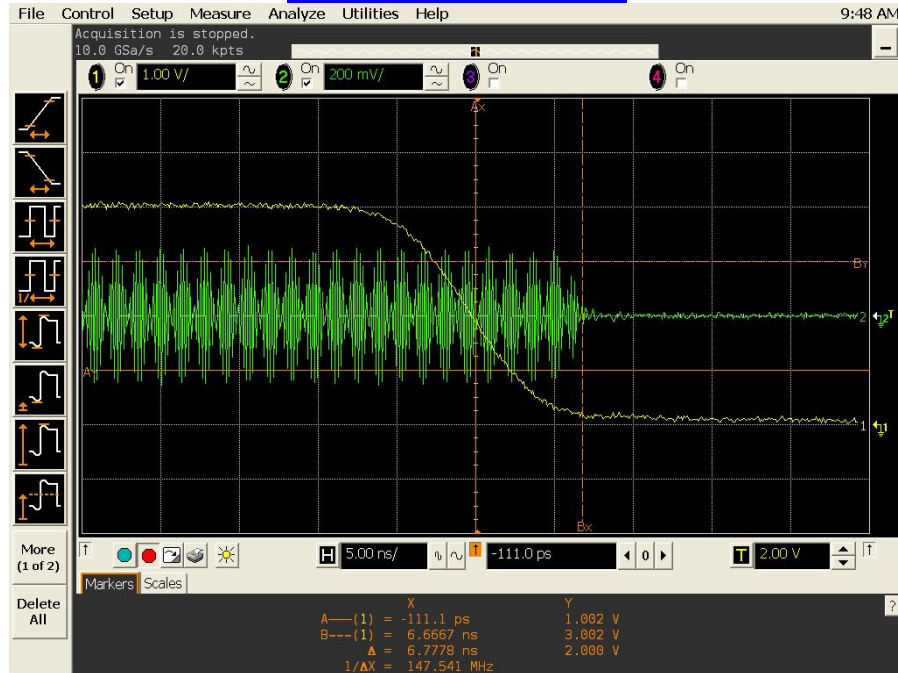
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TYPICAL CHARACTERISTICS ON P1T-200M18G-80-T-SFF-RL

Switching Speed TYP. OFF Delay – 10 ns per Div.



ON Delay – 10 ns per Div.

