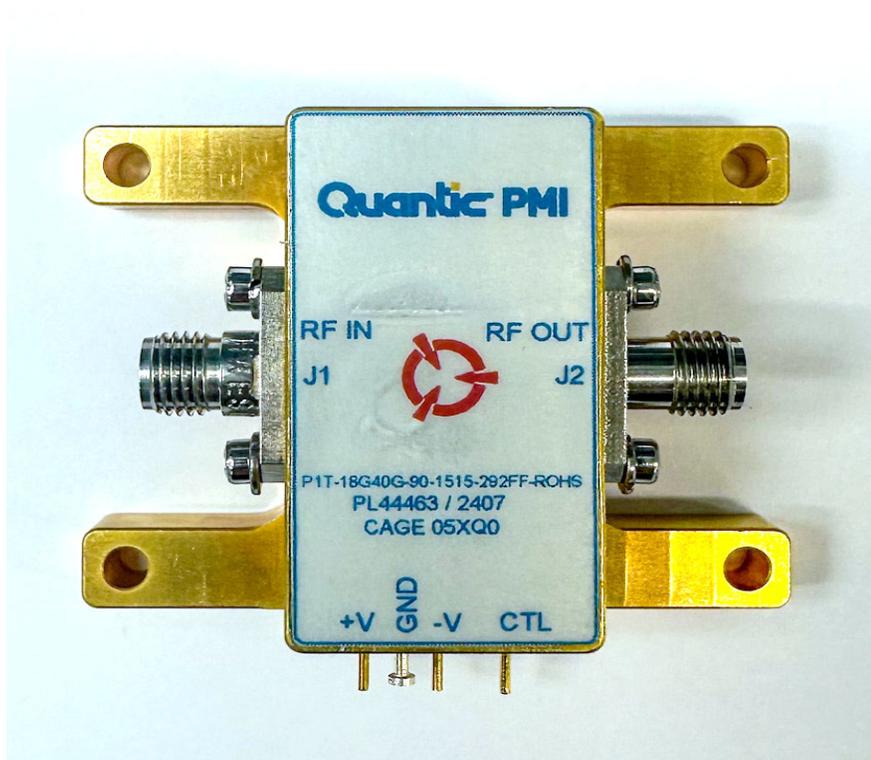


TYPICAL CHARACTERISTICS
ON
P1T-18G40G-90-1515-292FF-ROHS

PMI MODEL P1T-18G40G-90-1515-292FF-ROHS IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 15 TO 25 ns. THE FREQUENCY RANGE IS 18 TO 40 GHz. THIS SWITCH HAS > 90 dB ISOLATION.



REPORTED BY	SHANE O'NEILL
AUTHOR	NOOR AZHAR
DATE	FEBRUARY 14TH 2024

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@quanticpmi.com

**TYPICAL CHARACTERISTICS
ON
P1T-18G40G-90-1515-292FF-ROHS**

PRODUCT FEATURE

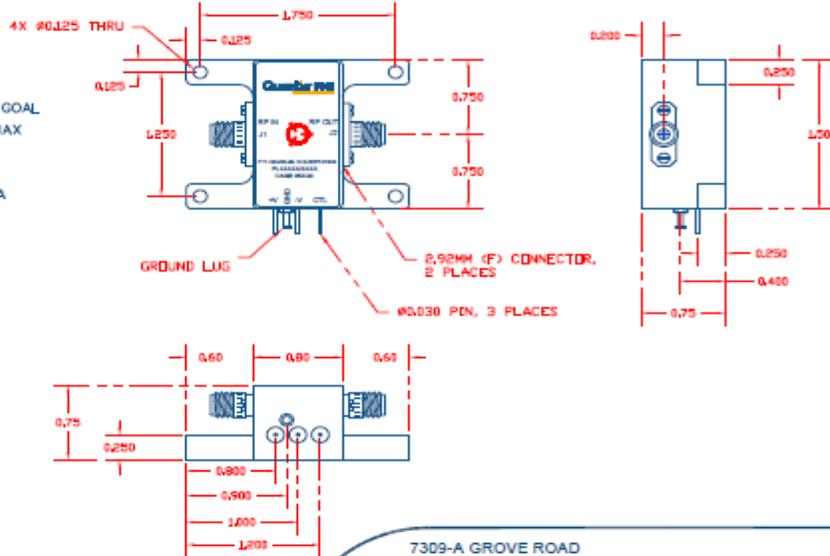
DESCRIPTION

PMI MODEL P1T-18G40G-90-1515-292FF-ROHS IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 15 TO 25 ns. THE FREQUENCY RANGE IS 18 TO 40 GHz. THIS SWITCH HAS > 90 dB ISOLATION.

REVISIONS				
DATE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/24/11	

SPECIFICATIONS

- FREQUENCY RANGE: 18 TO 40 GHz
- ISOLATION: 90 dB MIN
- INSERTION LOSS: 5.0 dB MAX
- VSWR IN / OUT: 2:1 MAX, 1.5:1 GOAL
- INPUT POWER: +23 dBm CW MAX
- RF SWITCHING SPEED: 25 ns MAX (10% TO 90% RF)
15 ns GOAL
- DC VOLTAGE: ±15 V @ 100mA
- CONTROL SIGNAL: 0 VDC ON
+5 VDC OFF
- CONNECTORS IN/OUT: 2.92 mm (F)
- FINISH: Gold Plated



ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-55°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.

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

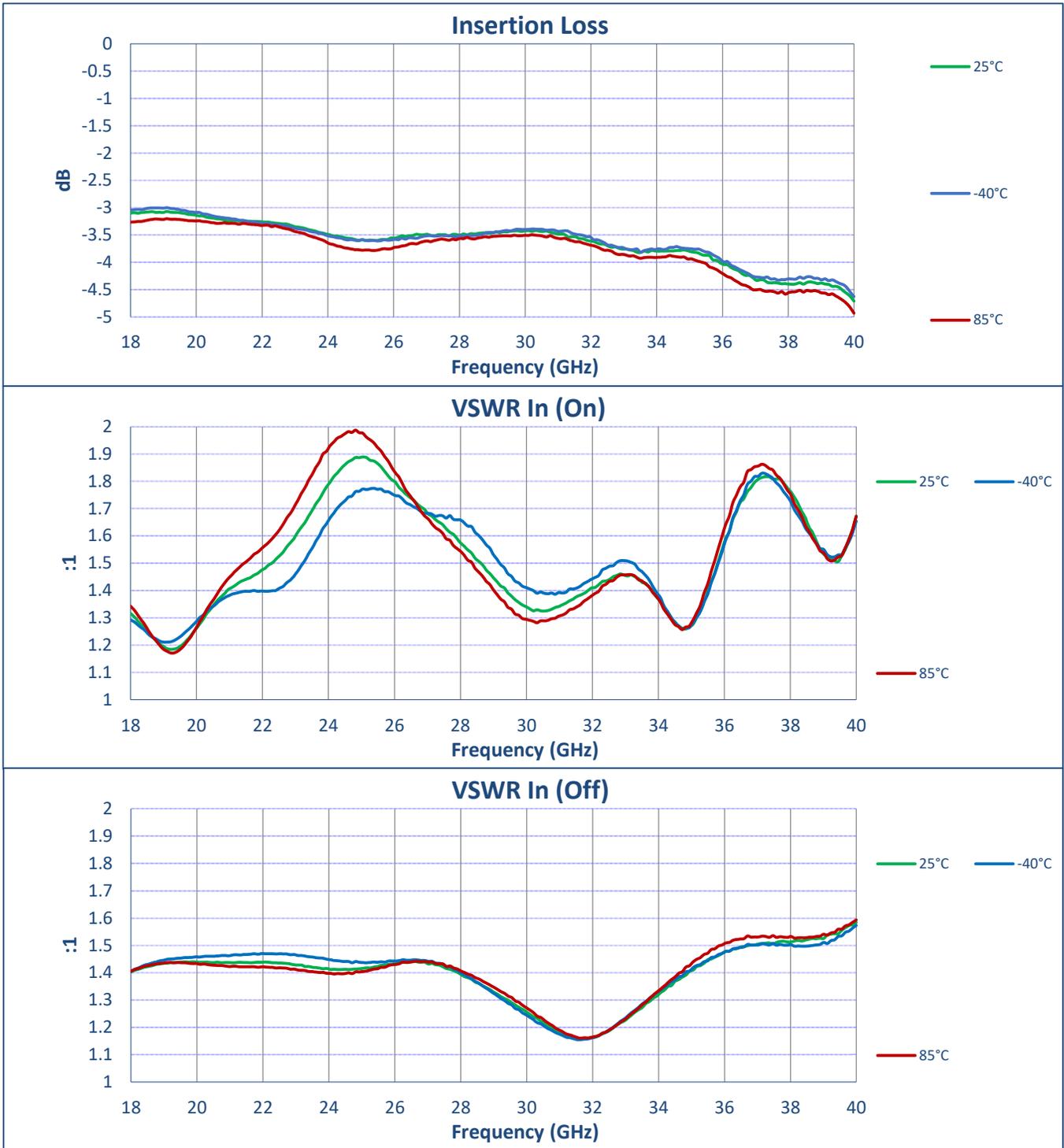


APPROVALS		DATE		TITLE			
DRAWN <i>S. ASHAR</i>		8/24/11		OUTLINE P1T-18G40G-90-1515-292FF-ROHS			
REV	FROM NO.	DATE	QTY	REV	FROM NO.	DATE	QTY
A	05XQ0		27047300				A1
SCALE: N/S		SHEET: 1 OF 1					

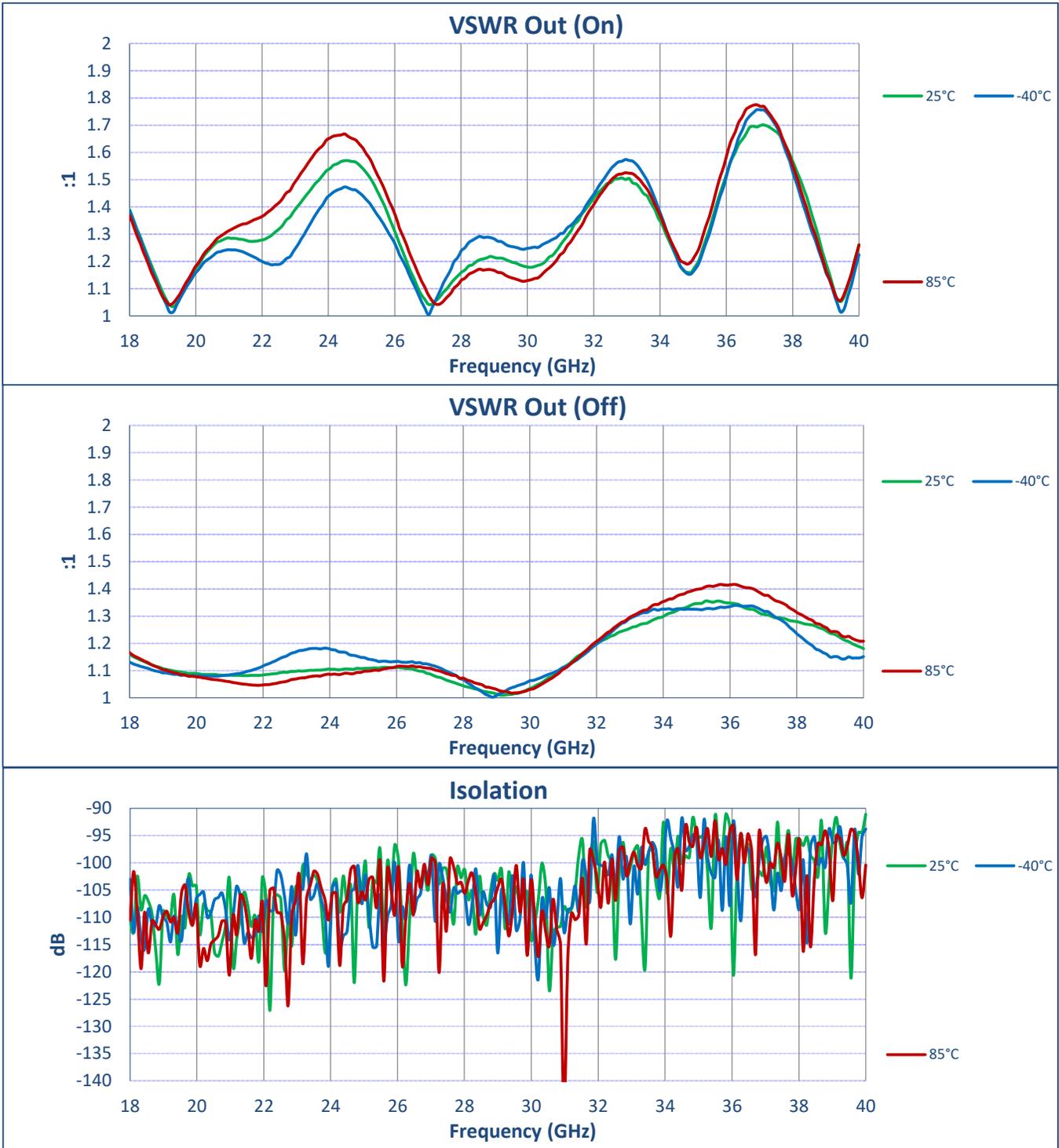
**TYPICAL CHARACTERISTICS
ON
P1T-18G40G-90-1515-292FF-ROHS**

TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-40°C	85°C
1	Frequency Range	18 GHz to 40 GHz	18 GHz to 40 GHz		
2	Isolation	90 dB Min.	91 dB	91.8 dB	92.3 dB
3	Insertion Loss	5 dB Max.	4.71 dB	4.63 dB	4.93 dB
4	VSWR: In/Out	2:1 Max. 1.5:1 Goal	1.89:1 In 1.7:1 Out	1.83:1 In 1.76:1 Out	1.99:1 In 1.78:1 Out
5	Input Power	23 dBm CW Max Operating	23 dBm CW		
6	Switching Speed	25 ns Max. 15 ns Typ.	16.7 ns		
7	Power Supply	15 V @ 100 mA Max. -15 V @ 100 mA Max.	15 V @ 67 mA -15 V @ 39 mA	15 V @ 67 mA -15 V @ 39 mA	15 V @ 67 mA -15 V @ 39 mA
8	Control Signal	TTL LOGIC '0' : Insertion Loss '1' : Isolation	0' : Insertion Loss '1' : Isolation		



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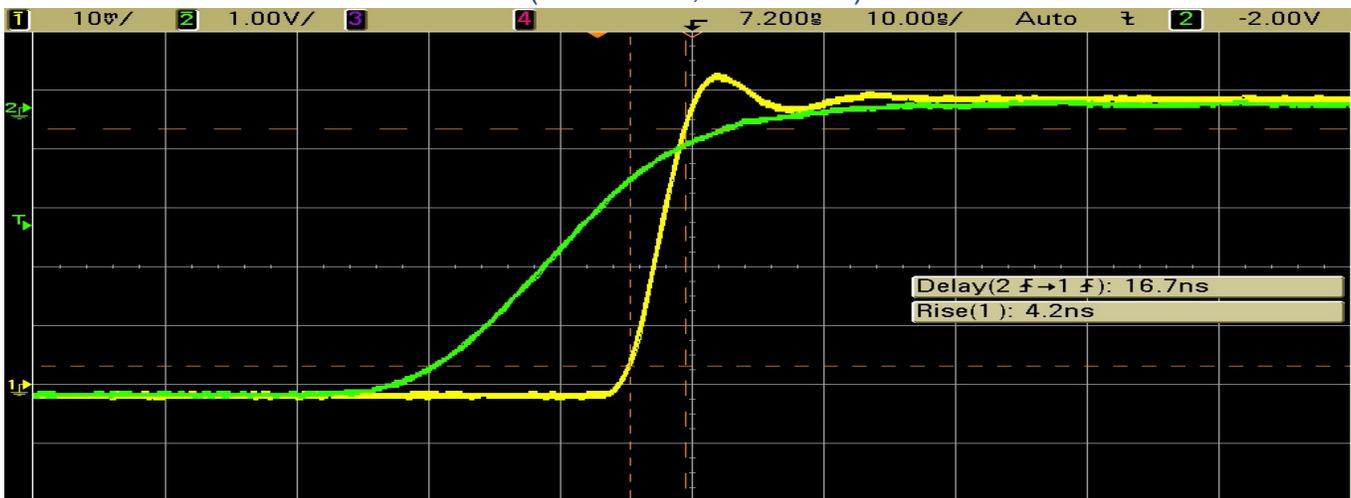


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Fall time (Green=TTL, Yellow=RF)



Rise time (Green=TTL, Yellow=RF)



Full Pulse (Green=TTL, Yellow=RF)

