

**TYPICAL CHARACTERISTICS
ON
P2T-1840-40-R-20W-292FF**

PMI MODEL P2T-1840-40-R-20W-292FF IS A REFLECTIVE, SINGLE POLE TWO THROW SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 18 TO 40 GHz. IT HAS A TYPICAL ISOLATION OF 48 dB. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.



Reported By Alfredo Lopez
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Date May 9 2025

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PRODUCT FEATURE

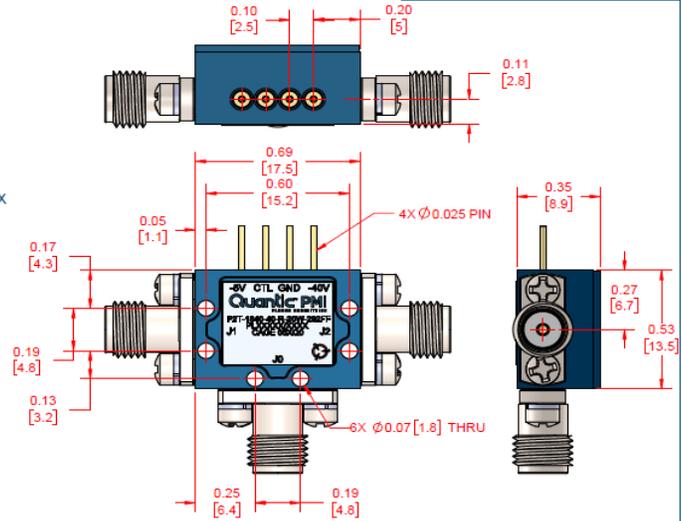
DESCRIPTION:

PMI MODEL P2T-1840-40-R-20W-292FF IS A REFLECTIVE, SINGLE POLE TWO THROW SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 18 TO 40 GHz. IT HAS A TYPICAL ISOLATION OF 48 dB. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.

SPECIFICATIONS:

- FREQUENCY RANGE:.....18 TO 40 GHz
- INSERTION LOSS:.....1 dB TYP
- ISOLATION:.....48 dB TYP
- VSWR (IN/OUT):.....1.6:1 TYP
- INPUT POWER:.....+43 dBm CW MAX
- SWITCHING SPEED:.....100 ns MAX
- LOGIC CONTROL:.....LOGIC 0 = GND
LOGIC 1 = 2.8-5V
- DC SUPPLY :.....-40V AND -5V @ 65 mA MAX
- CONNECTORS:.....2.92mm FEMALE
- FINISH:.....PAINTED BLUE

LOGIC CONTROL TABLE		
J0	J1	J2
0	OFF	ON
1	ON	OFF



ENVIRONMENTAL RATINGS:

- TEMPERATURE:.....-54°C TO +85°C (OPERATING)
-54°C TO +85°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

ZONE	REV	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	11/19/99	
A2		ECN # 25-0041	01/10/09	

MATERIAL:		APPROVALS:	DATE:
FINISH:		DESIGNED BY:	DATE:
NEXT ASSY:	USED ON:	REVIEWED BY:	DATE:
APPLICATION:		DATE:	DATE:

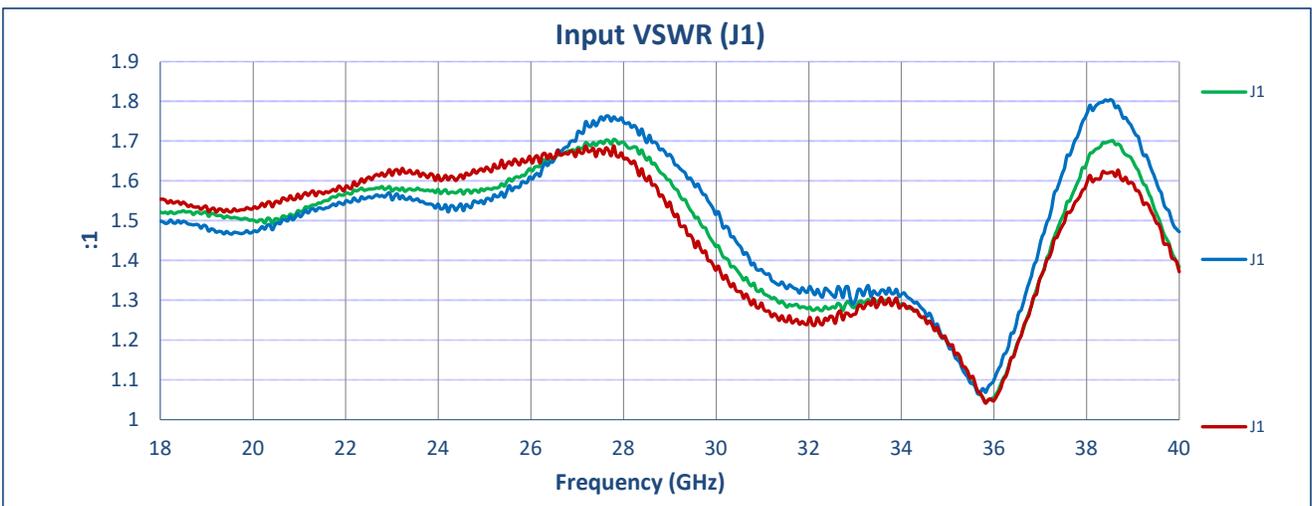
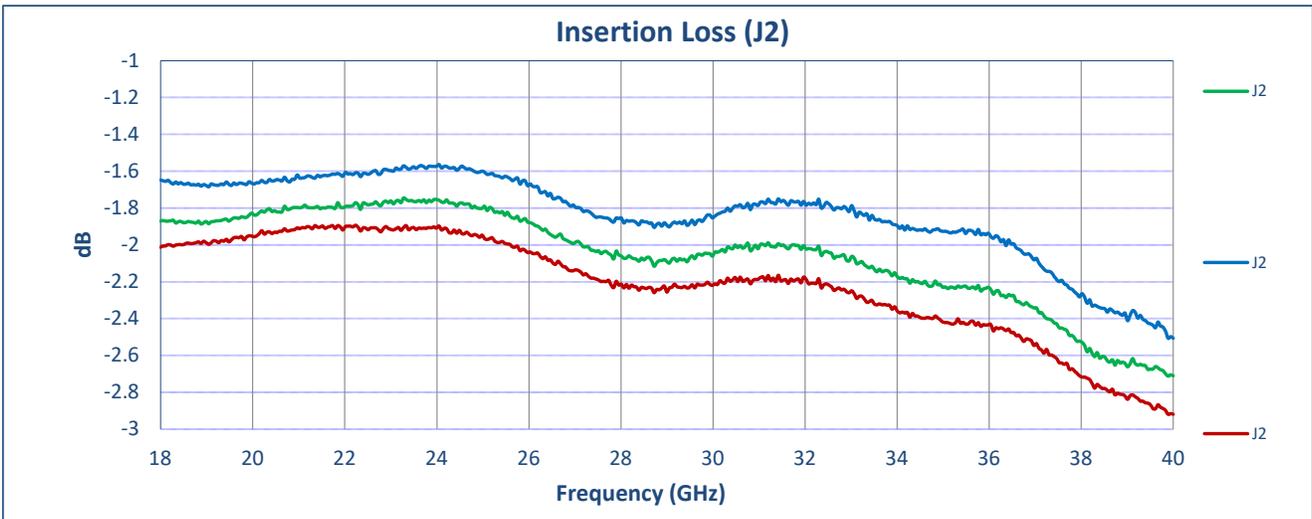
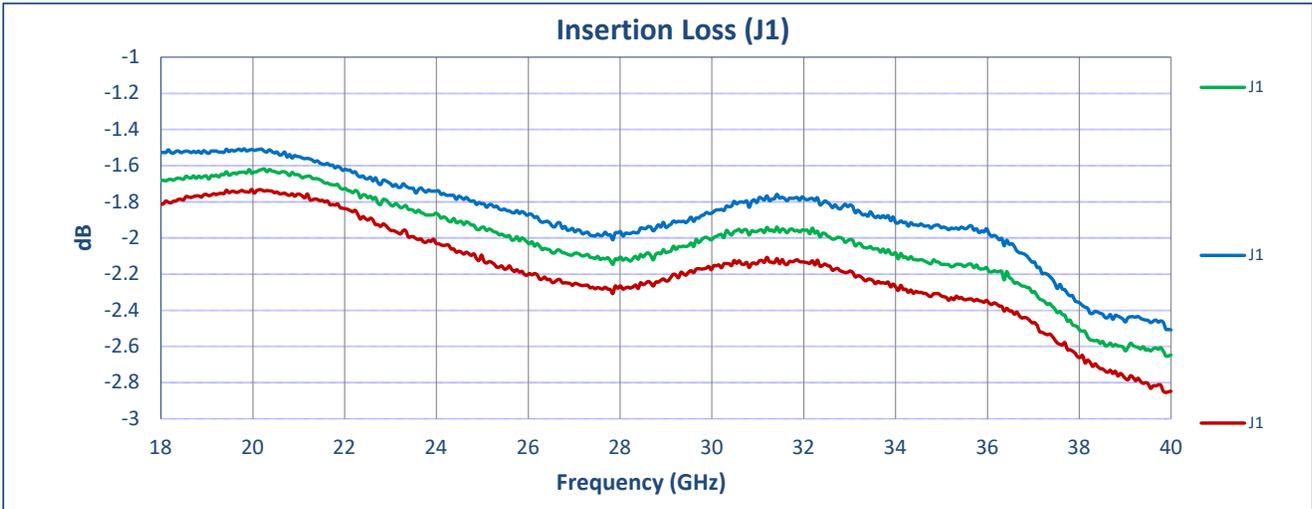
PMI CONFIDENTIAL AND PROPRIETARY			
Quantic PMI			
7309-A GROVE ROAD, FREDERICK, MD 21704 USA WWW.QUANTICPMI.COM			
TITLE:		OUTLINE	
P2T-1840-40-R-20W-292FF			
REV:	FORM NO:	DATE:	REV:
B	DSX00	27050260	A2
SCALE 3:1		SHEET 1 OF 1	

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TEST DATA

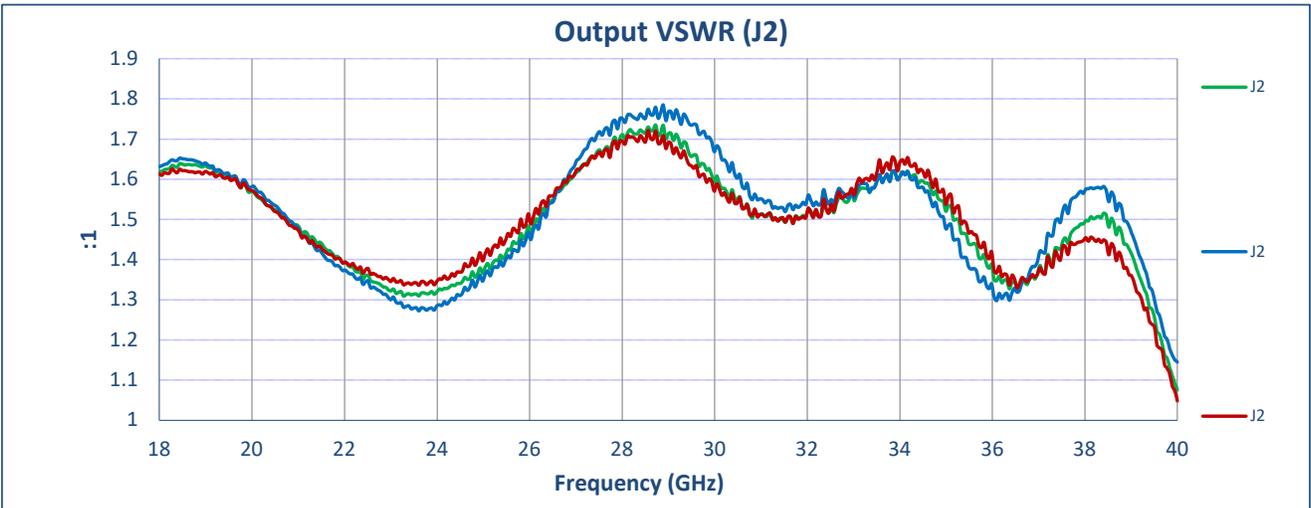
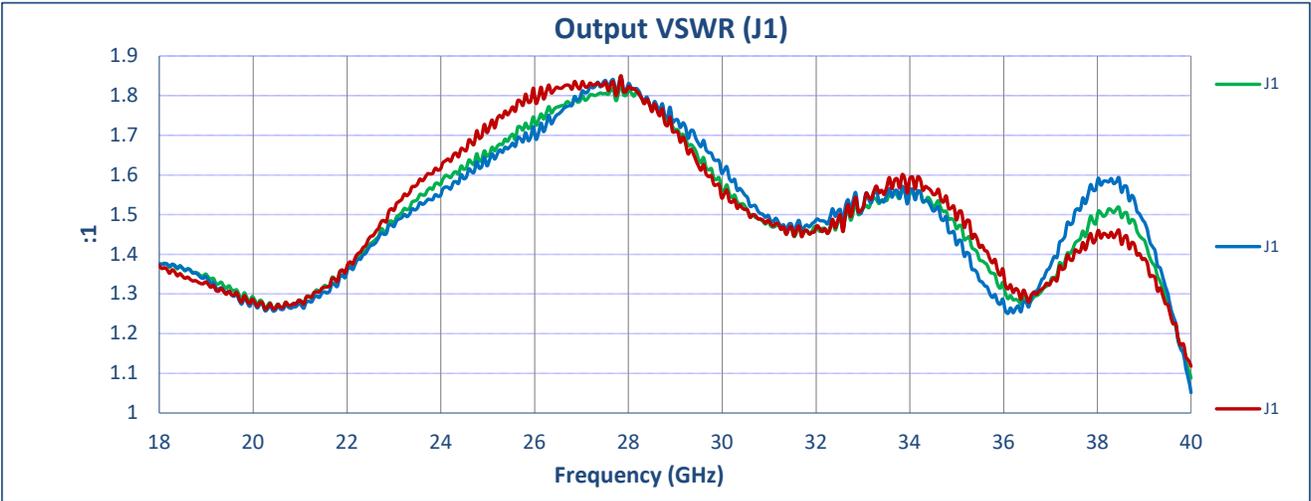
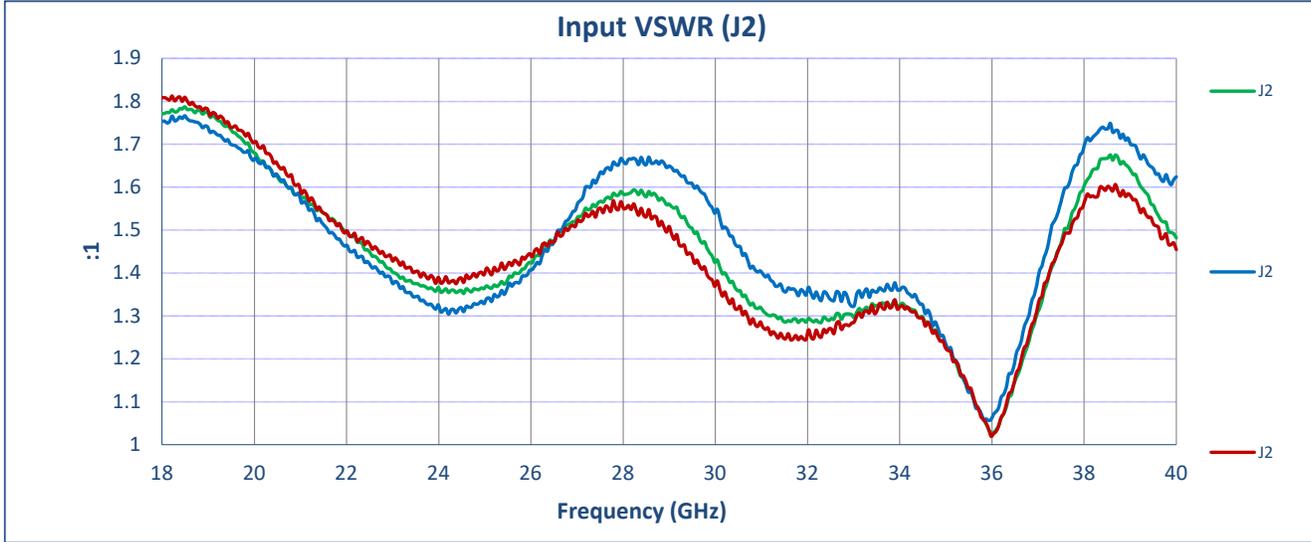
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-54°C	85°C
1	Frequency Range	0.4 GHz to 18 GHz	18 GHz to 40 GHz		
1	Frequency Range	18 GHz to 40 GHz	18 GHz to 40 GHz	18 GHz to 40 GHz	18 GHz to 40 GHz
2	Insertion Loss	1 dB Typ.	2.71 dB	2.51 dB	2.92 dB
3	Isolation	48 dB Typ.	39.4 dB	41.2 dB	36.2 dB
4	VSWR: In/Out	1.6:1 Typ.	1.79:1 In 1.83:1 Out	1.8:1 In 1.85:1 Out	1.81:1 In 1.85:1 Out
5	Operating Power CW	43 dBm Max	43 dBm	43 dBm	43 dBm
6	Switching Speed Max	100 ns Max.	Rise Time - 108 ns		
			Fall Time - 100 ns		
			Speed ON - 337 ns		
			Speed OFF - 354 ns		
7	Power Supply	-40 and - 5 V @ 65 mA	-40 VDC @100 µA -5 VDC @ 100 µA		

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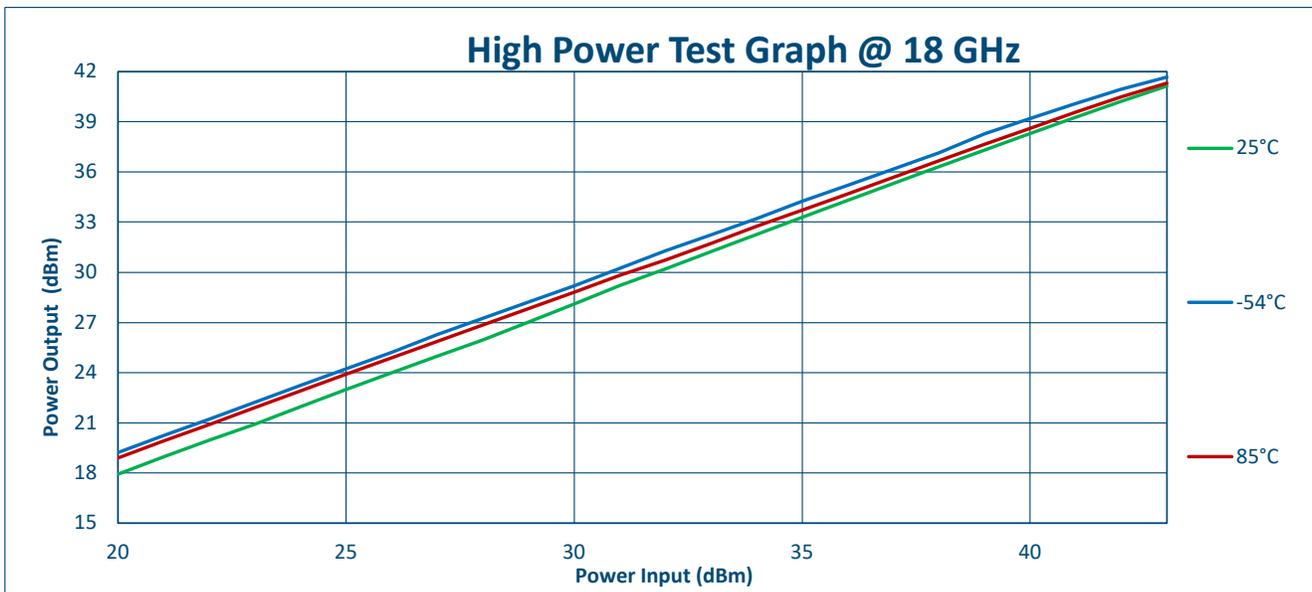
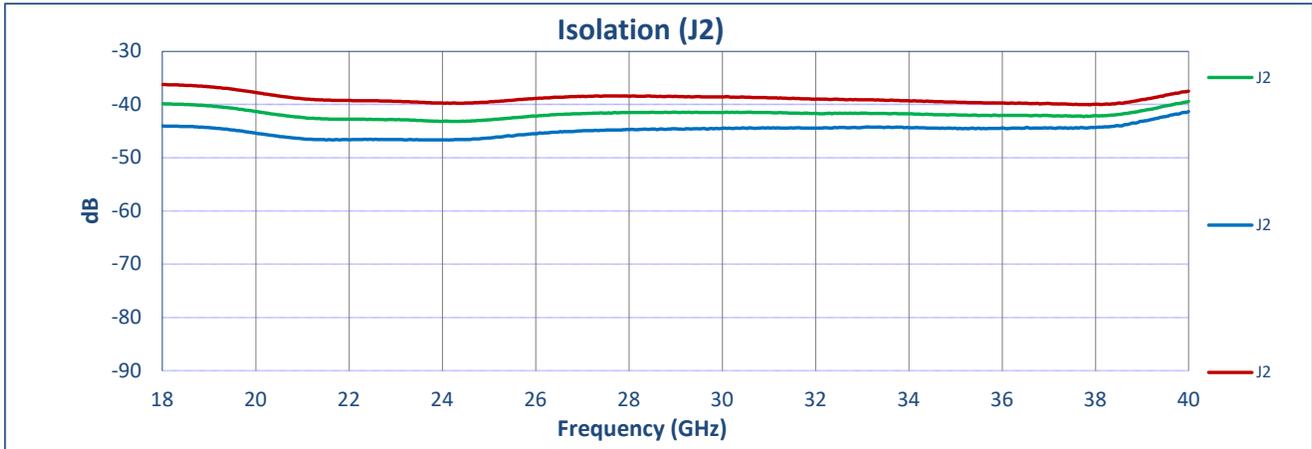
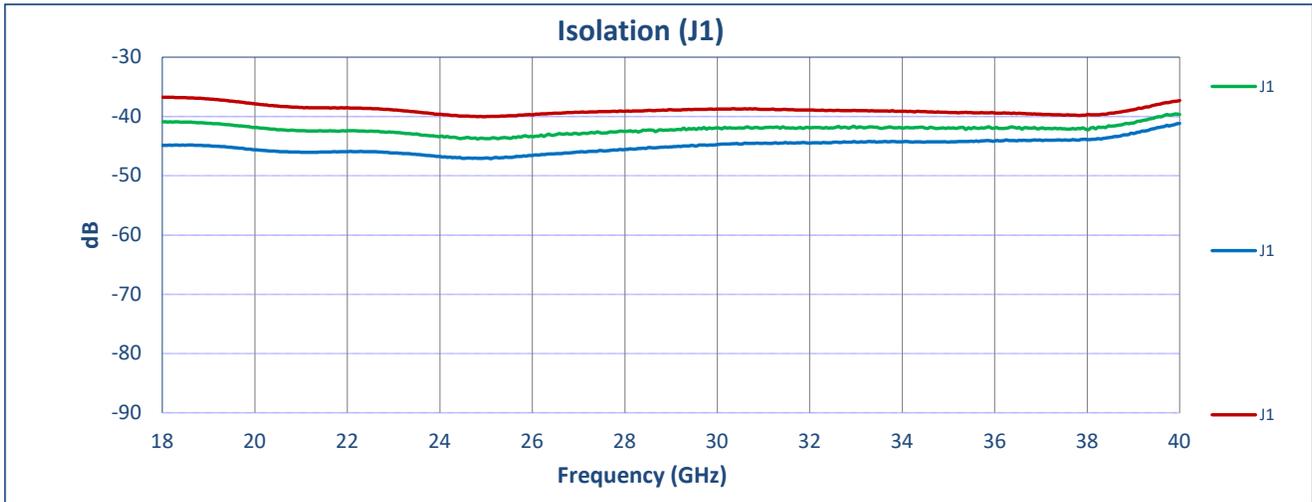


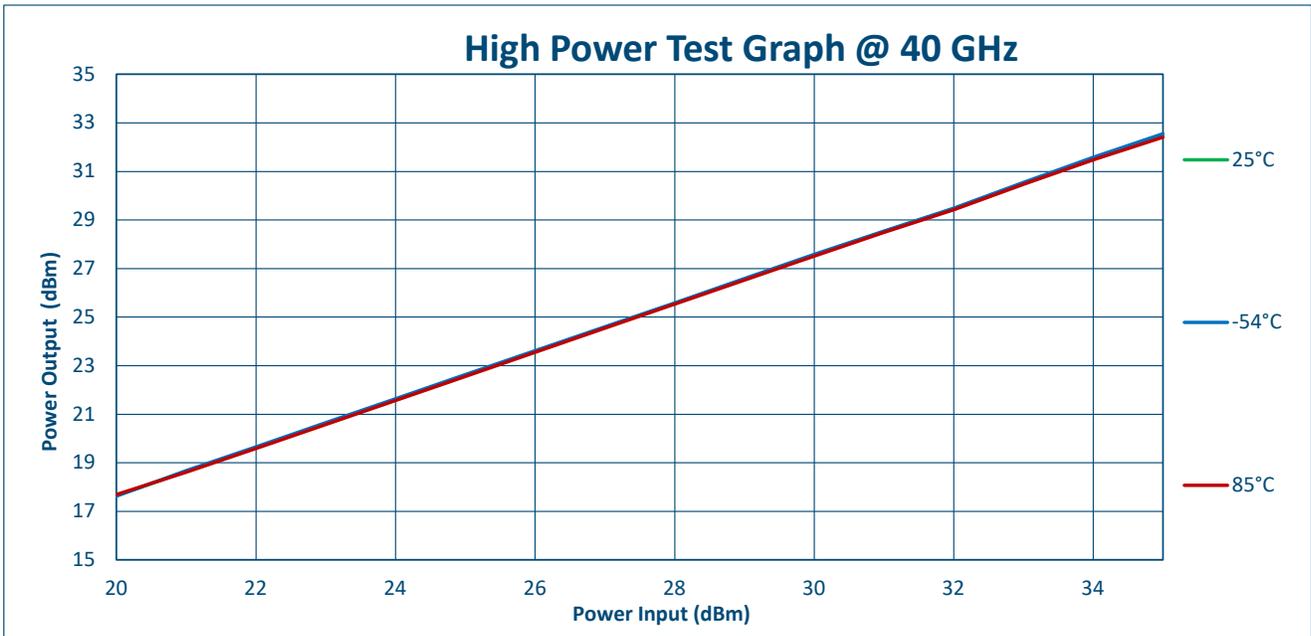
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SWITCHING SPEED

