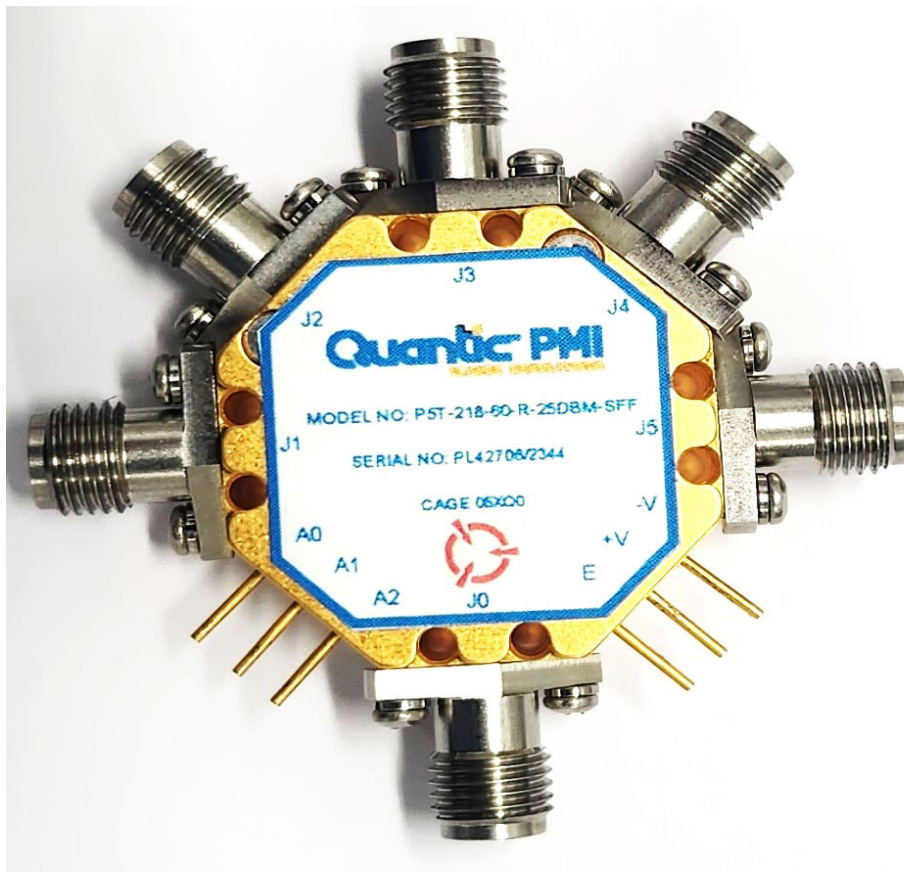


**TYPICAL CHARACTERISTICS  
ON  
P5T-218-60-R-25DBM-SFF**

**PMI MODEL NUMBER P5T-218-60-R-25DBM-SFF IS A SINGLE POLE, FIVE THROW REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 2 GHz TO 18 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS, HIGH ISOLATION, FAST SWITCHING SPEED, AND 25 dBm POWER HANDLING.**



**Reported By** Shane O'Neill  
**AUTHOR** Noor Azhar  
**DATE** October 31 2023

**TYPICAL CHARACTERISTICS  
ON  
P5T-218-60-R-25DBM-SFF**

**PRODUCT FEATURE**

**DESCRIPTION:**

PMI MODEL NUMBER P5T-218-60-R-25DBM-SFF IS A SINGLE POLE, FIVE THROW REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 2 GHz TO 18 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS, HIGH ISOLATION, FAST SWITCHING SPEED, AND 25 dBm POWER HANDLING.

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 2 TO 18 GHz
- INSERTION LOSS:..... 3.2dB MAXIMUM
- ISOLATION:..... 60dB MINIMUM
- VSWR:..... 2.0:1 MAXIMUM
- SPEED:..... 100ns MAXIMUM
- CONTROL:..... TTL LOGIC
- POWER INPUT (OPERATING):..... 25 dBm MAXIMUM
- POWER SUPPLY :..... +5V TO +15V @ 120mA NOMINAL  
-5V TO -15V @ 65mA NOMINAL
- RF CONNECTORS:..... SMA FEMALE
- DC CONNECTORS:..... SOLDER PINS
- FINISH:..... GOLD PLATED

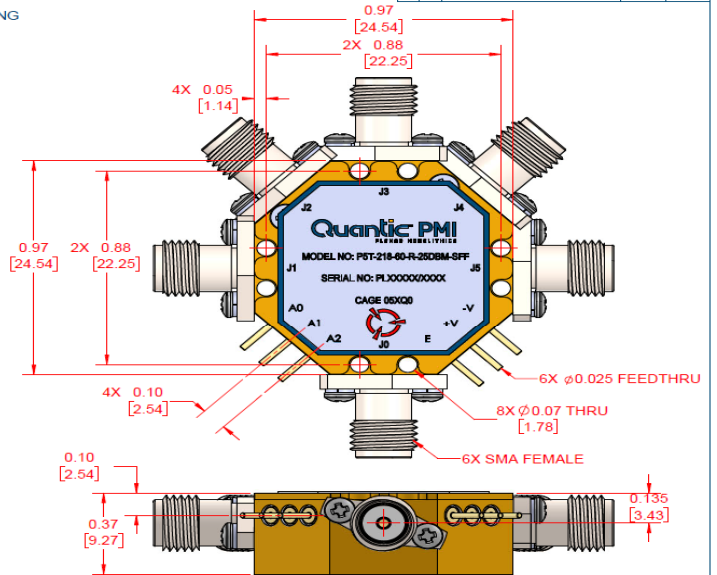
TTL LOGIC CONTROL TABLE									
A0	A1	A2	E	J0-J1	J0-J2	J0-J3	J0-J4	J0-J5	
1	0	0	1	I.L.	ISO	ISO	ISO	ISO	
0	1	0	1	ISO	I.L.	ISO	ISO	ISO	
1	1	0	1	ISO	ISO	I.L.	ISO	ISO	
0	0	1	1	ISO	ISO	ISO	I.L.	ISO	
1	0	1	1	ISO	ISO	ISO	ISO	I.L.	
X	X	X	0	ISO	ISO	ISO	ISO	ISO	

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-55°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 TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/19/93	



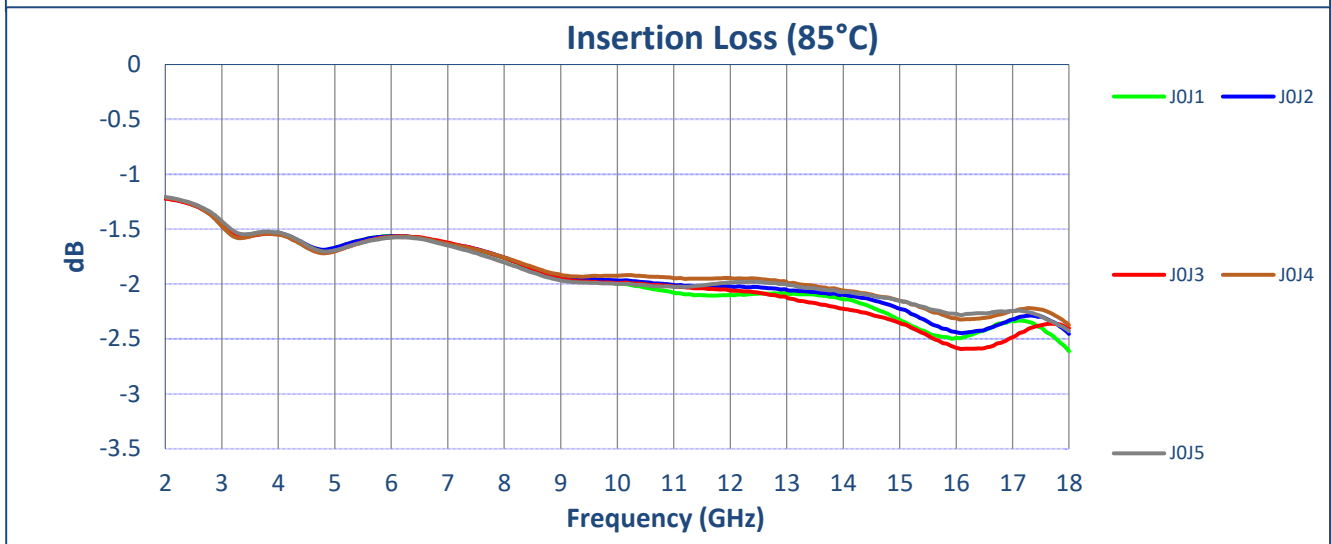
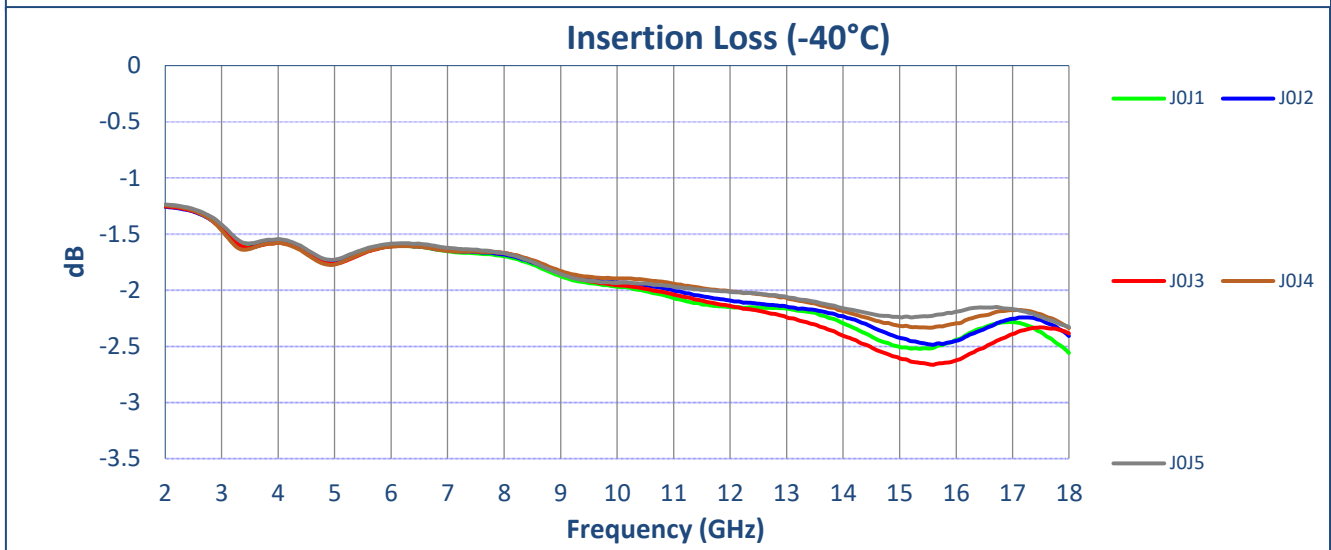
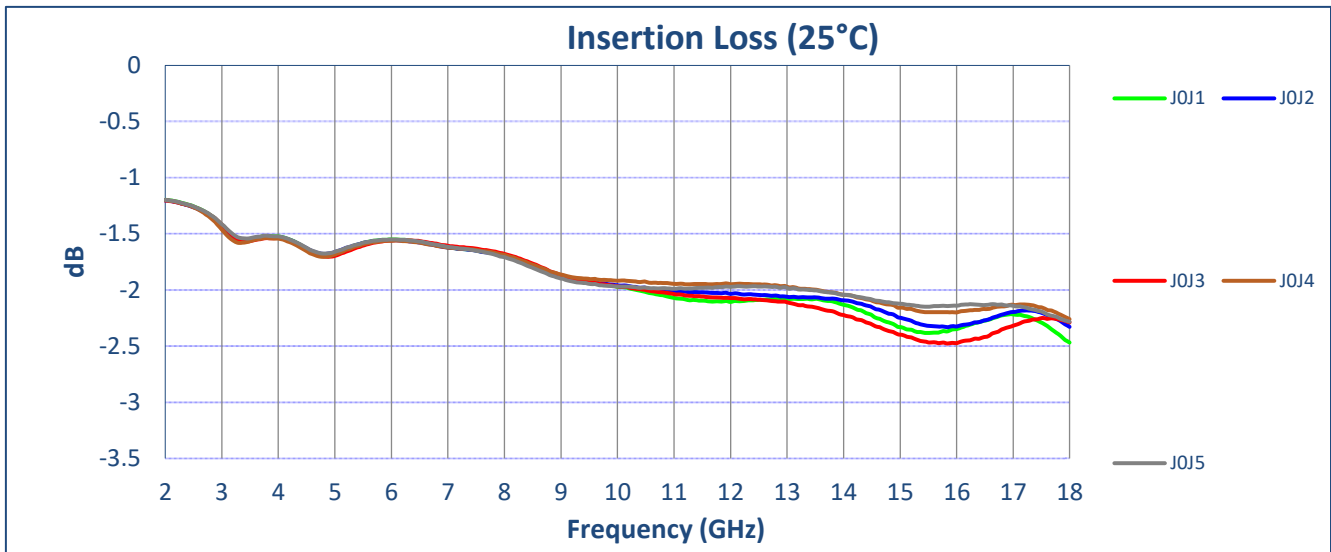
PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	S AZHAR	6/19/93	OUTLINE	
ISSUED			P5T-218-60-R-25DBM-SFF	
SIZE	B	FORM NO.	05XQ0	27048700
SCALE	3:1	REV		A1
				SHEET 1 OF 1

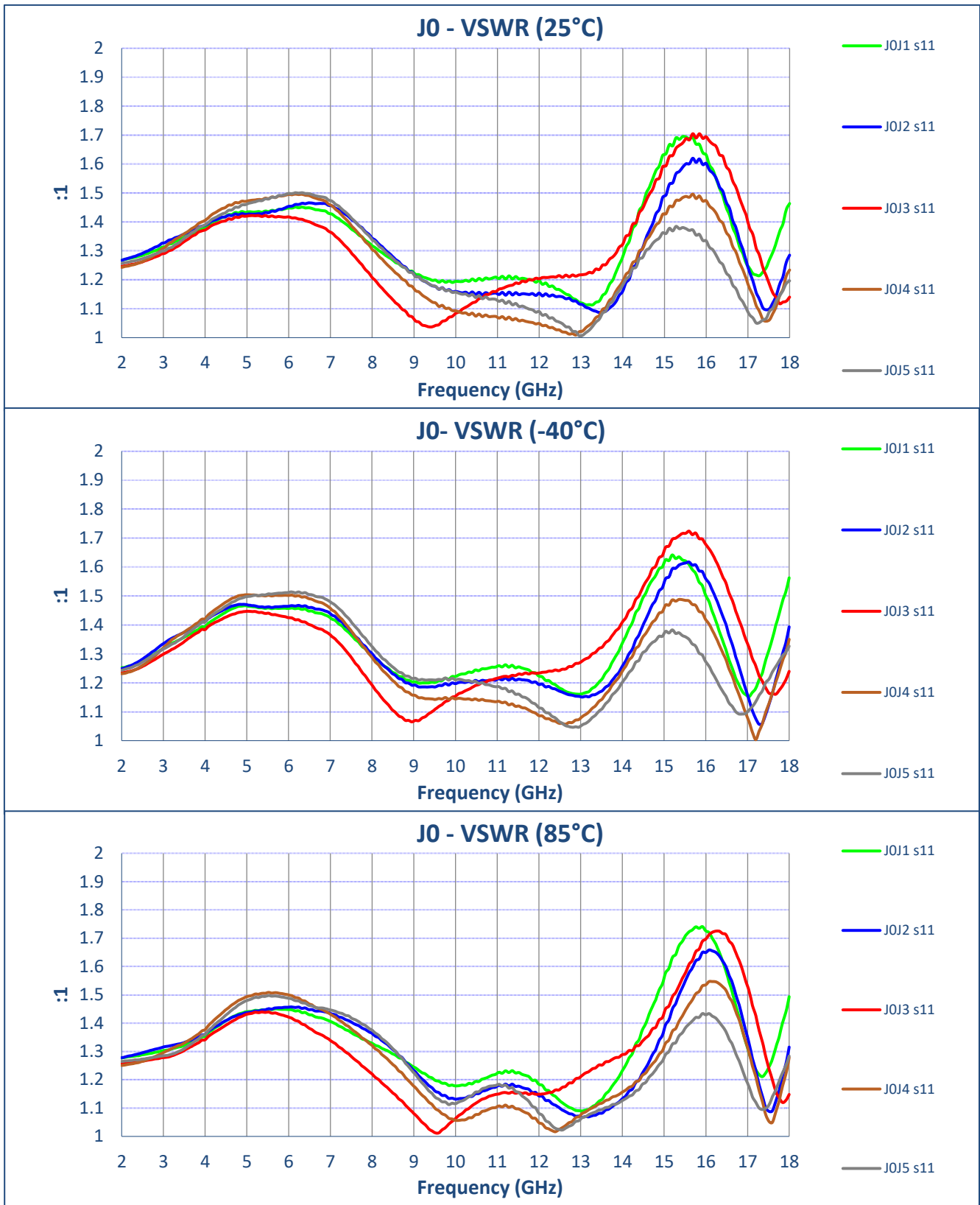
**TYPICAL CHARACTERISTICS  
ON  
P5T-218-60-R-25DBM-SFF**

**TEST DATA**

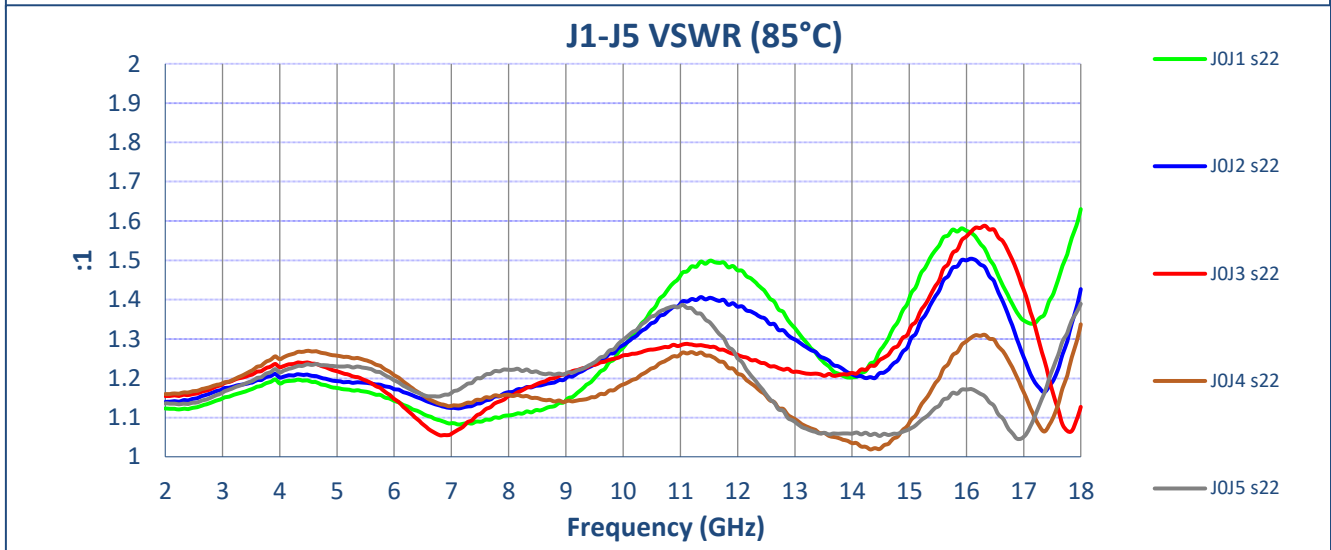
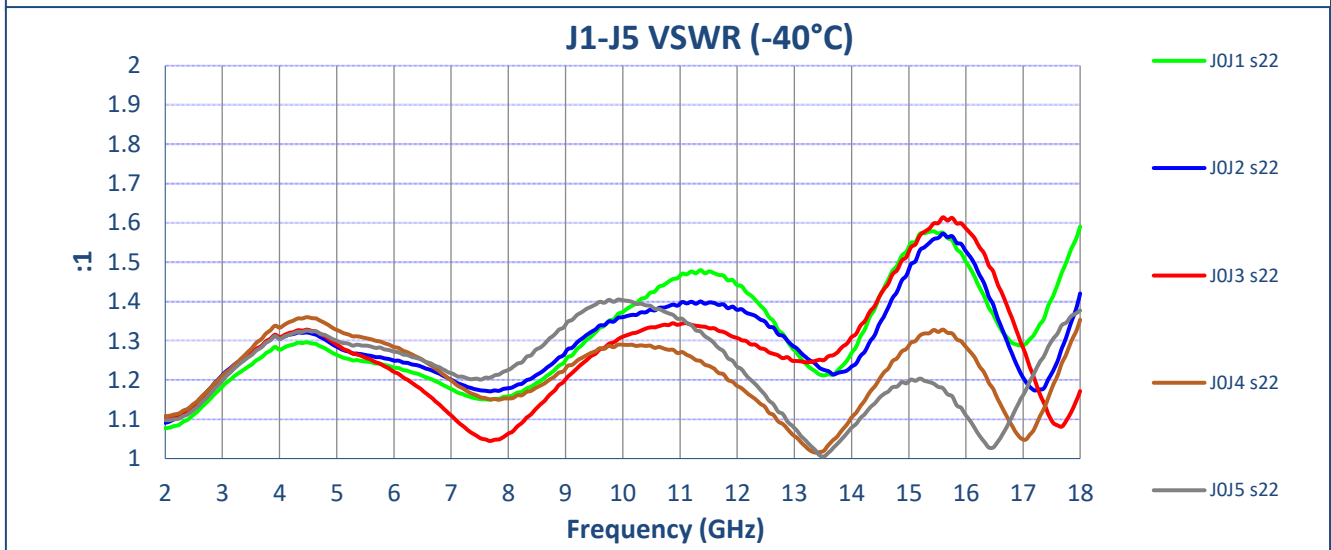
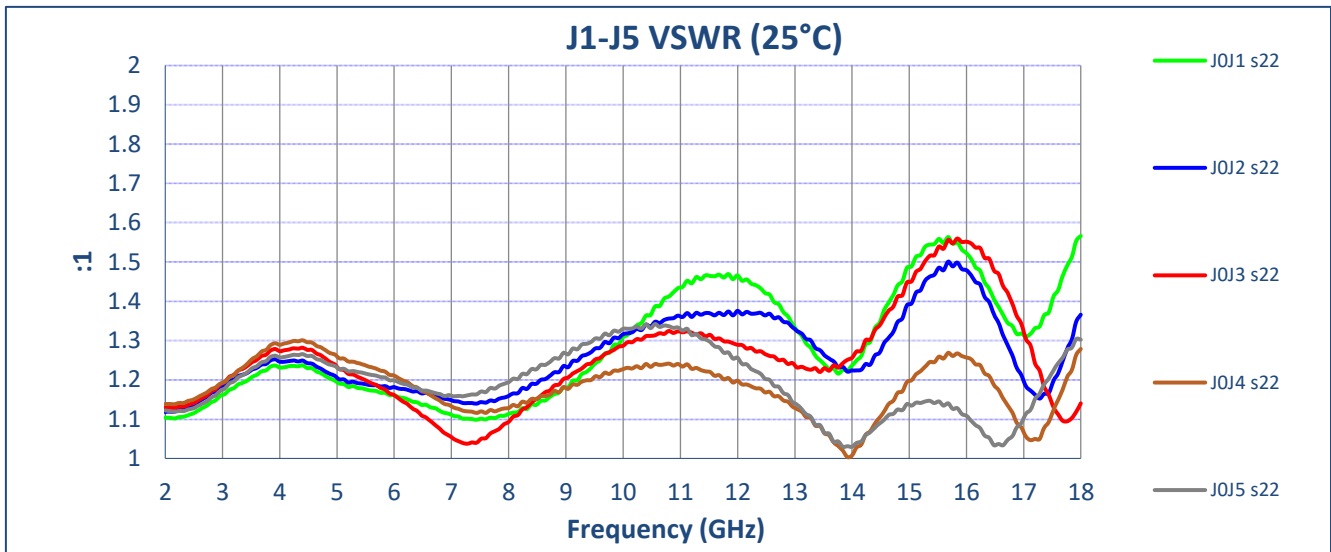
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-40°C	85°C
1	Frequency Range	2 GHz to 18 GHz	2 GHz to 18 GHz	2 GHz to 18 GHz	2 GHz to 18 GHz
2	Insertion Loss	3.2 dB Max.	2.48 dB	2.66 dB	2.61 dB
3	Isolation	60 dB Min.	81.4 dB	83.5 dB	83.7 dB
4	VSWR: In/Out	2:1 Max.	1.7:1 In 1.57:1 Out	1.72:1 In 1.61:1 Out	1.74:1 In 1.63:1 Out
5	Switching Speed Max	100 ns Max.	35 ns		
6	Operating Power	25 dBm Max	+25 dBm	+25 dBm	+25 dBm
7	Power Supply	5 to 15 V @ 120 mA -5 to -15 V @ 65 mA	5 to 15V @ 88mA -5 to -15V @ 9mA	5 to 15V @ 87mA -5 to 15V @ 8mA	5 to 15V @ 89mA -5 to 15V @ 10mA



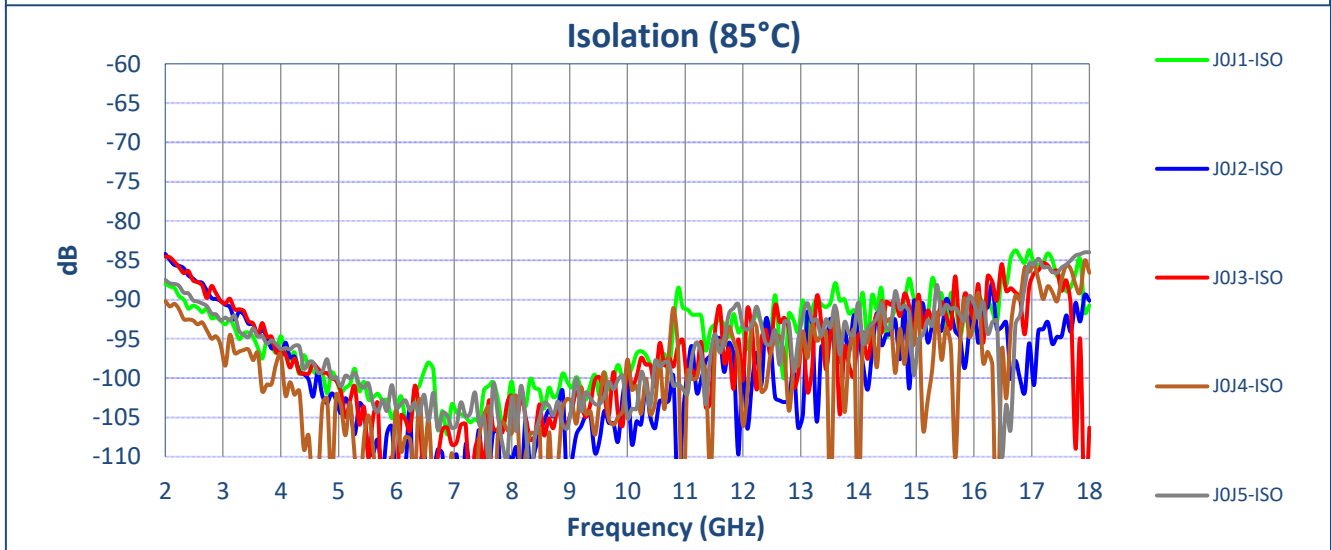
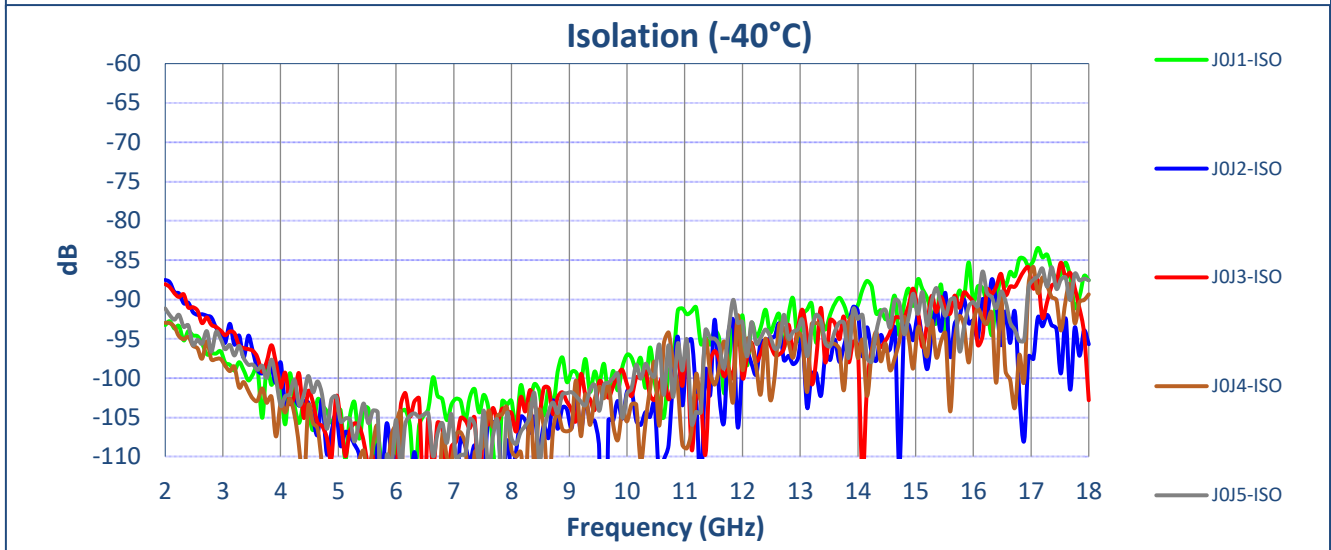
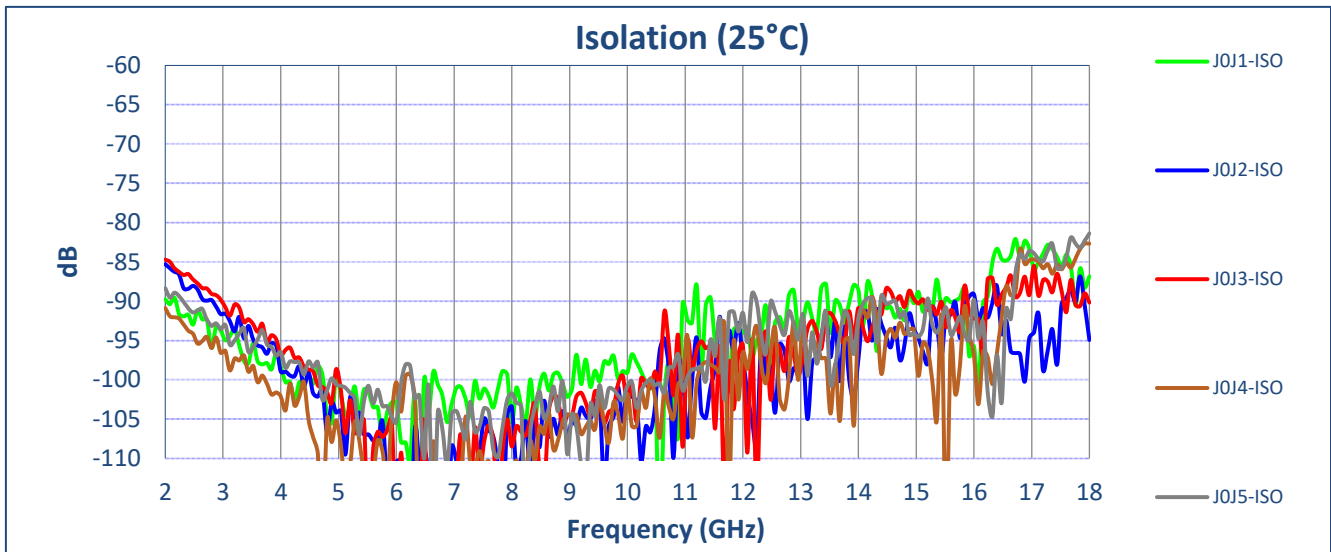
**TYPICAL CHARACTERISTICS  
ON  
P5T-218-60-R-25DBM-SFF**



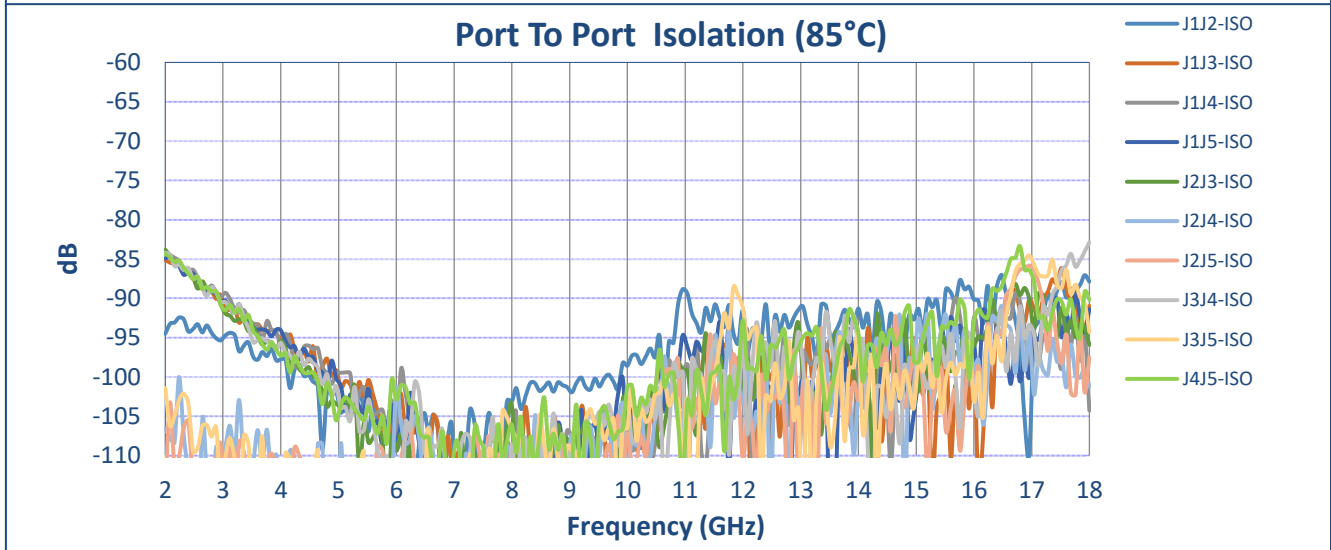
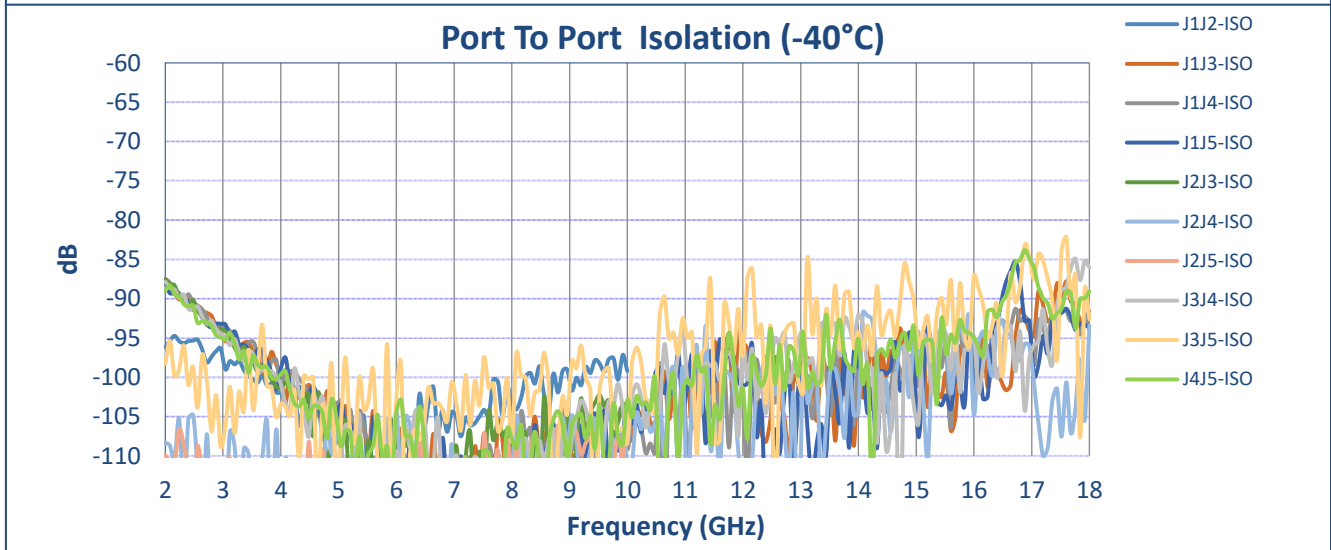
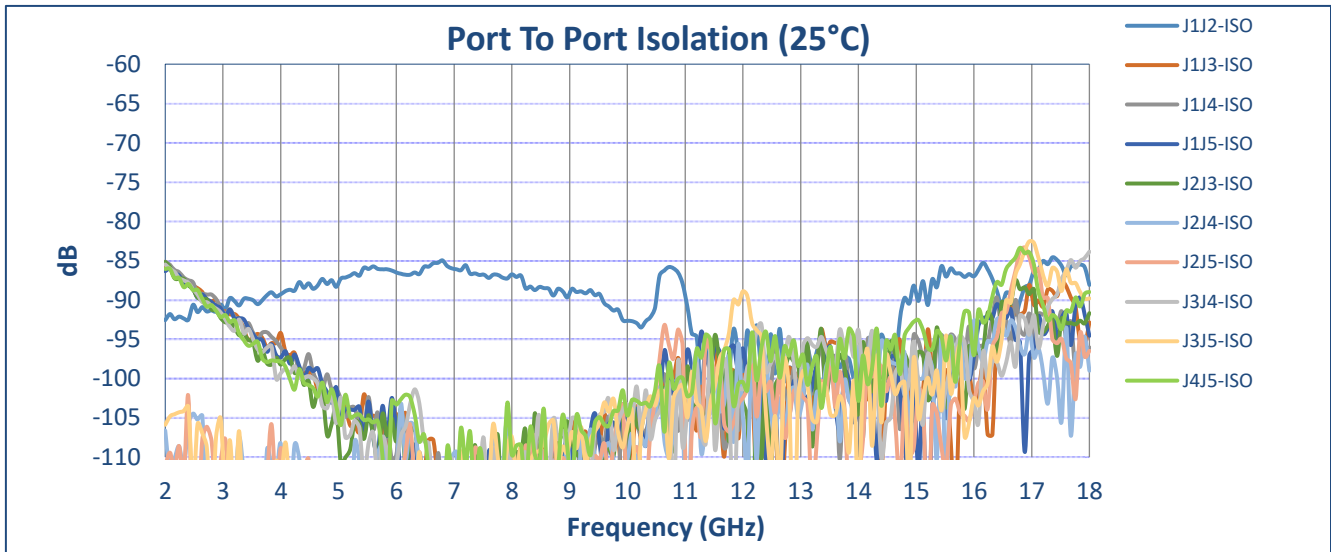
**TYPICAL CHARACTERISTICS  
ON  
P5T-218-60-R-25DBM-SFF**



**TYPICAL CHARACTERISTICS  
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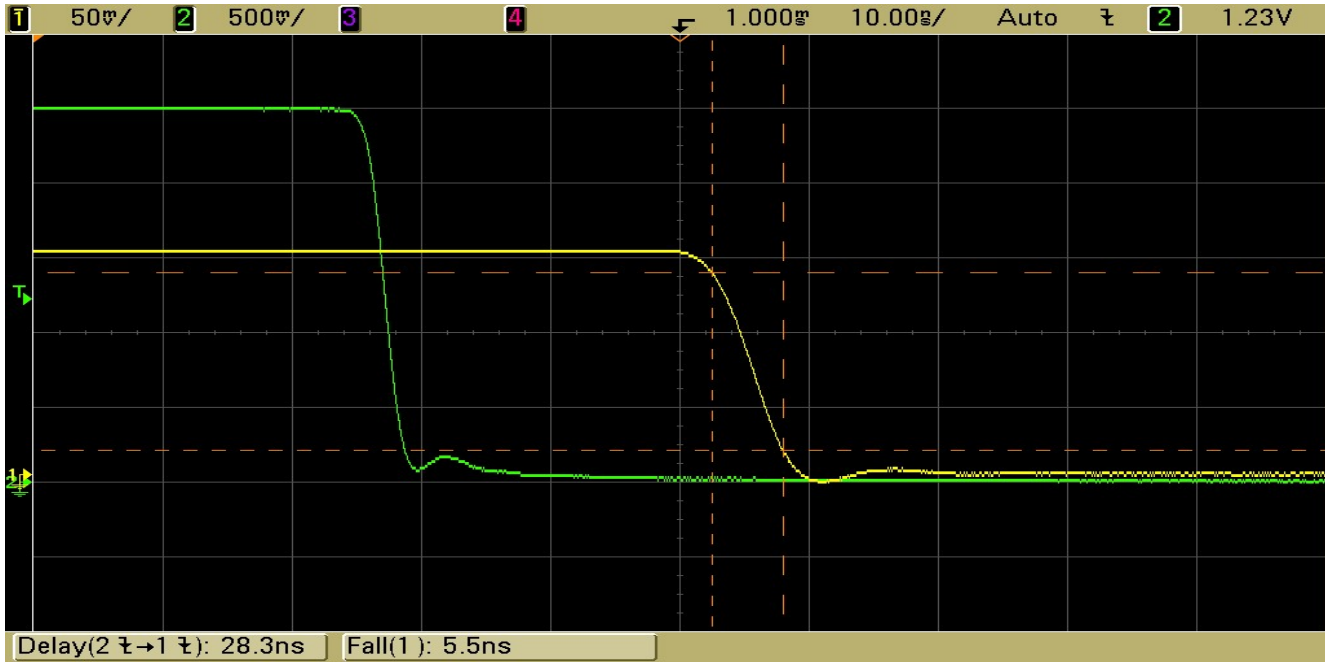


7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 Email: sales@pmi-rf.com

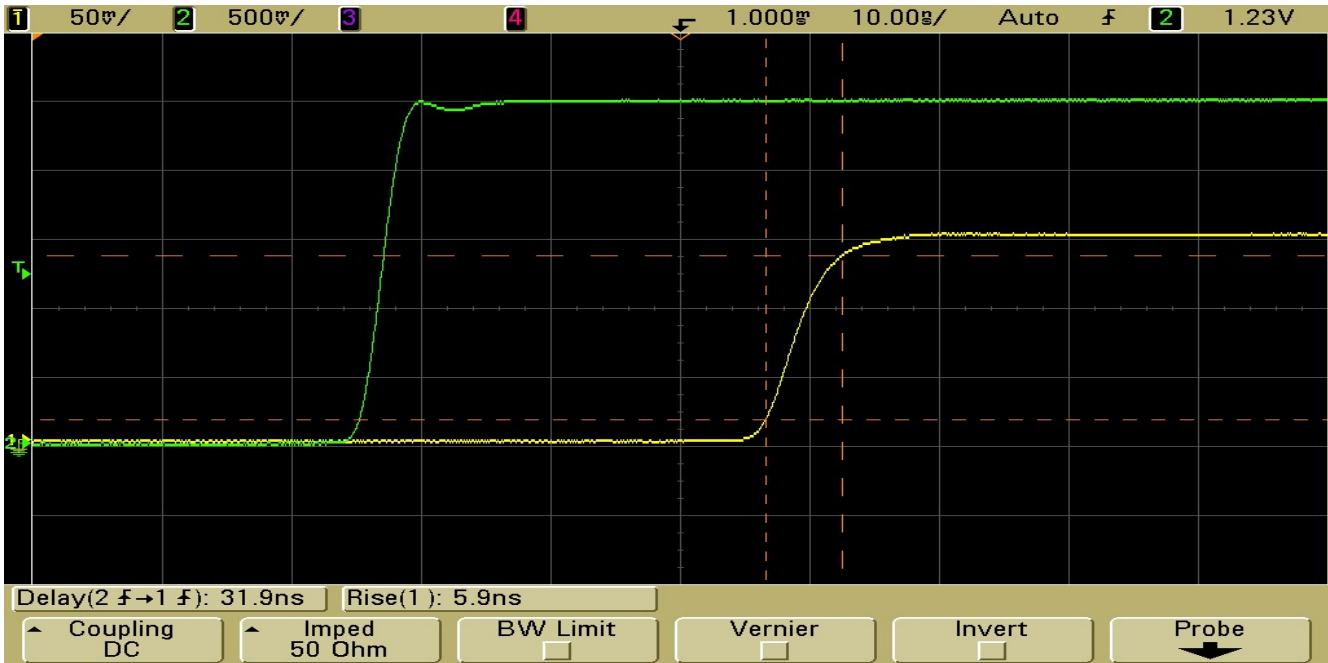


**TYPICAL CHARACTERISTICS  
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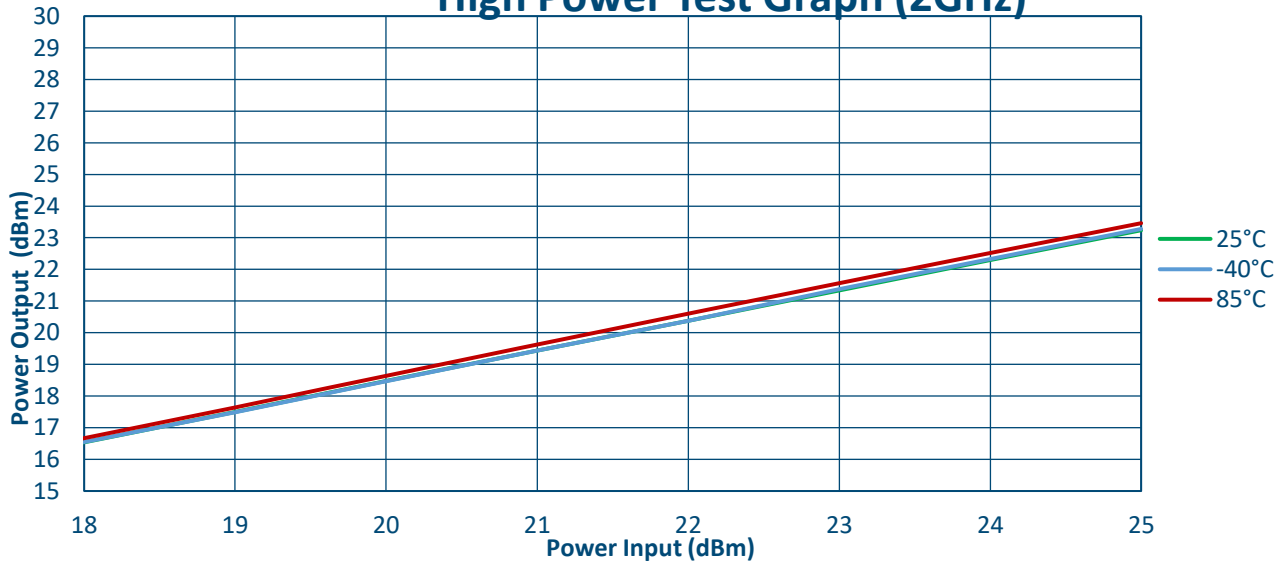
**SWITCHING SPEED OFF**



**SWITCHING SPEED ON**



**High Power Test Graph (2GHz)**



**High Power Test Graph (8GHz)**

