

**TYPICAL CHARACTERISTICS
ON
P8T-0R518-70-T-SFF-MICROD**

PMI MODEL P8T-0R518-70-T-SFF-MICROD IS A SINGLE POLE EIGHT THROW ABSORPTIVE SWITCH. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.

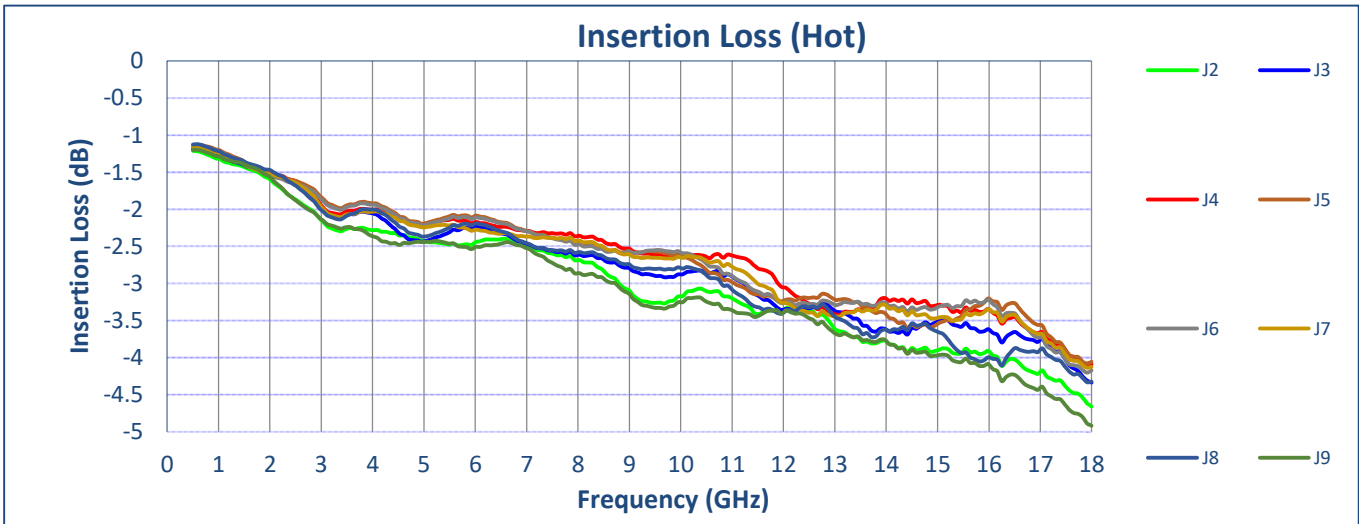
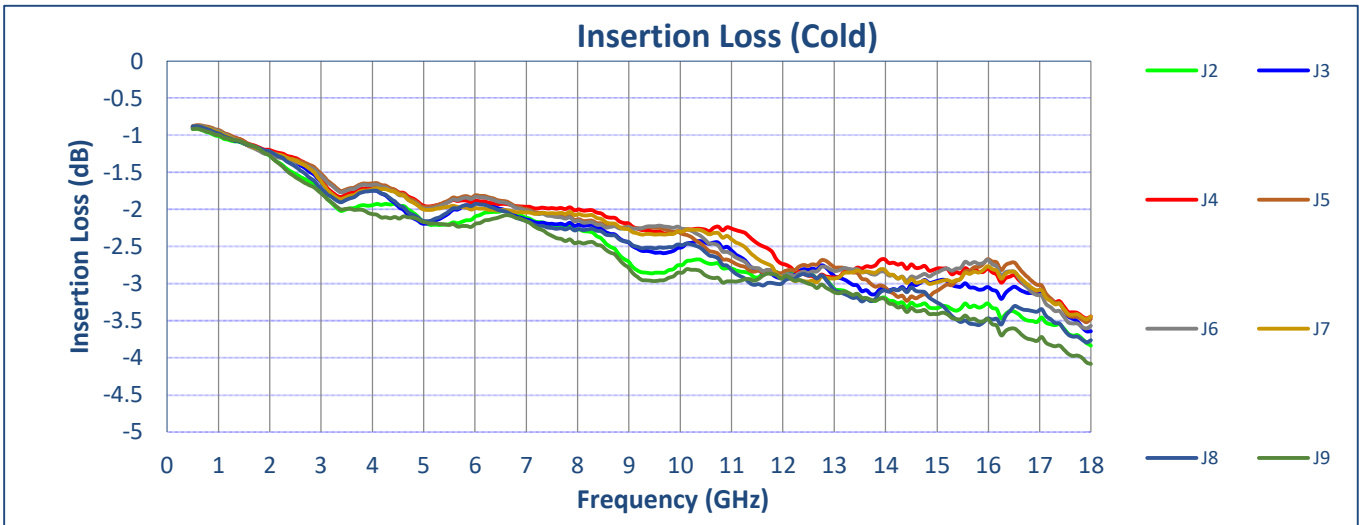
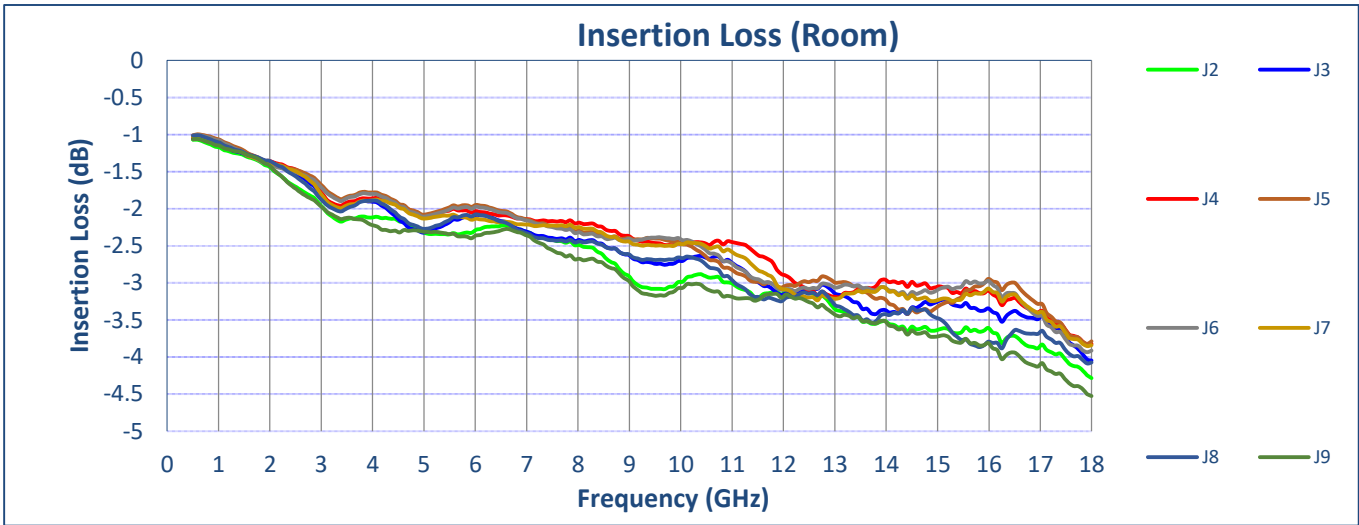


Reported By Hugo Gonzales
AUTHOR Noor Azhar
DATE April 14 2023

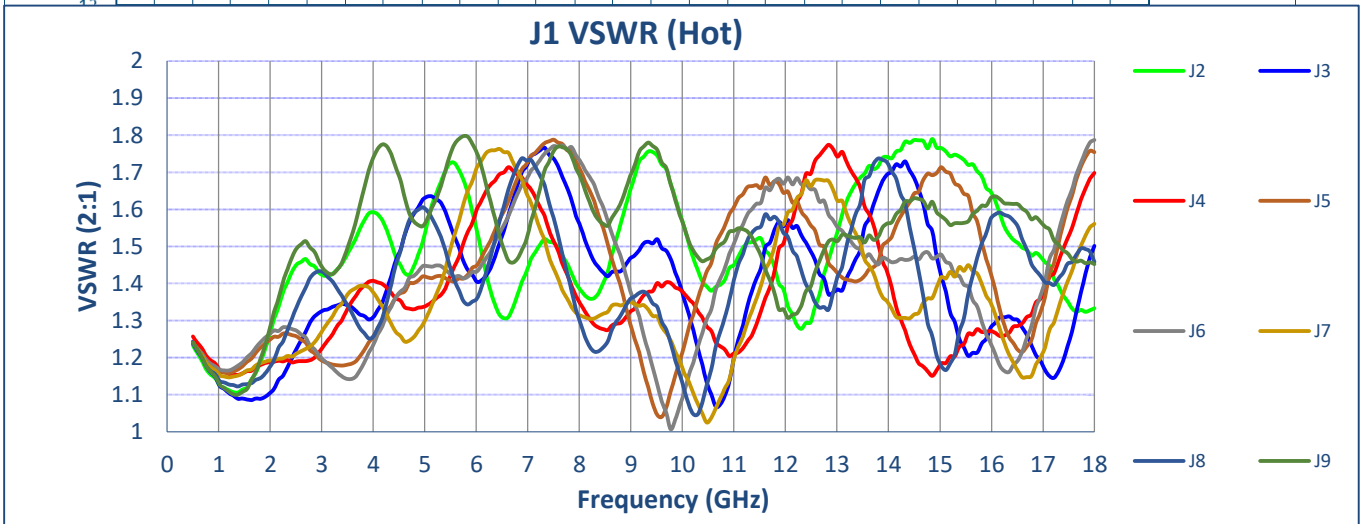
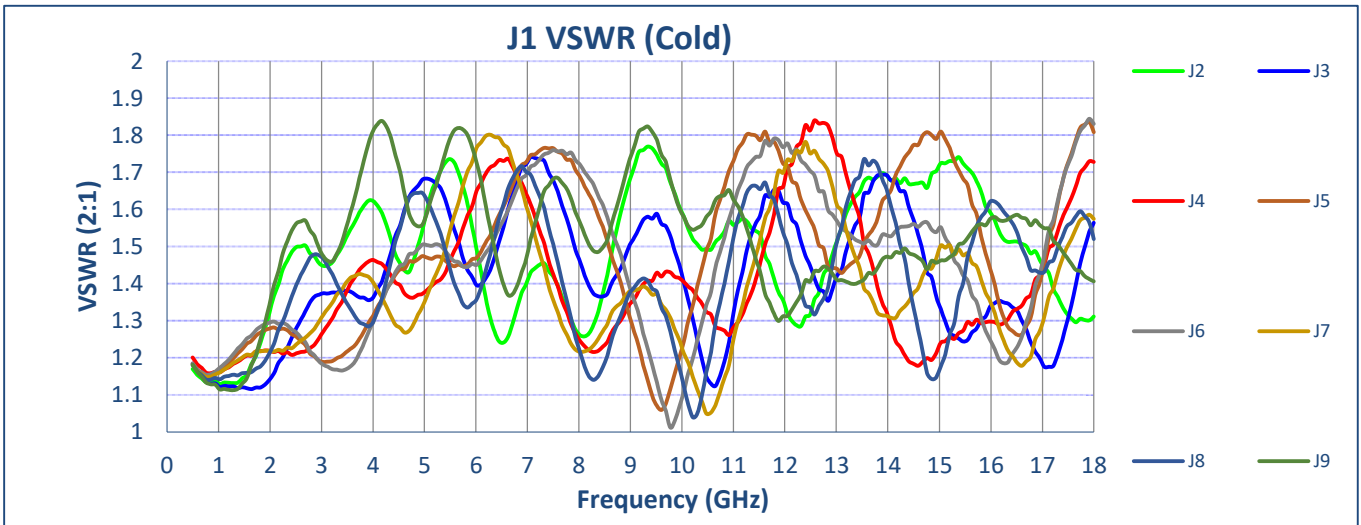
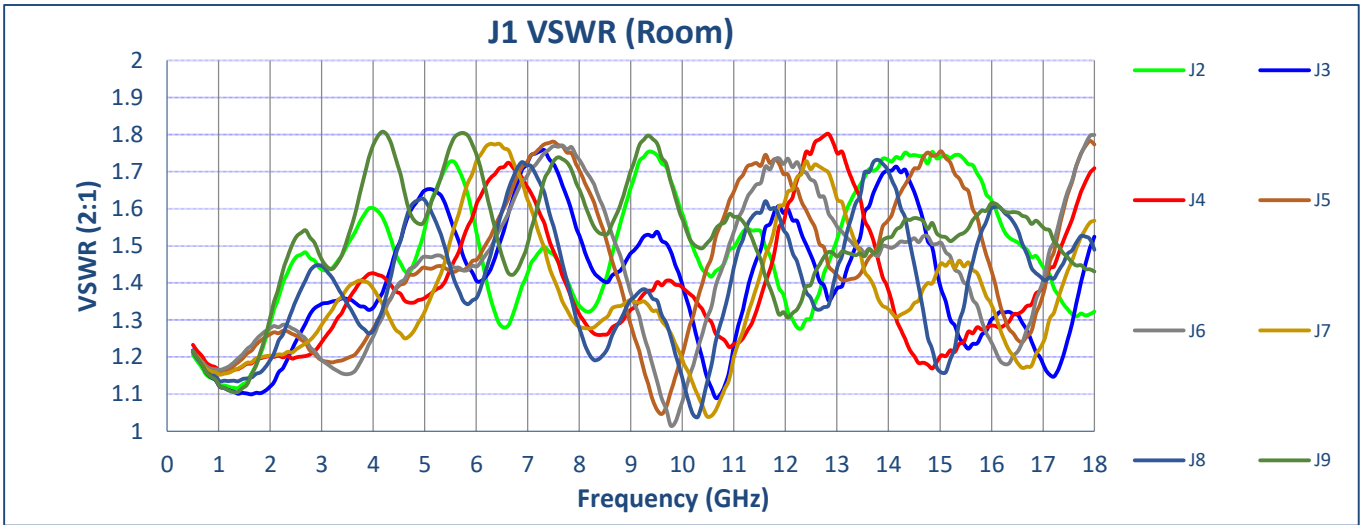
7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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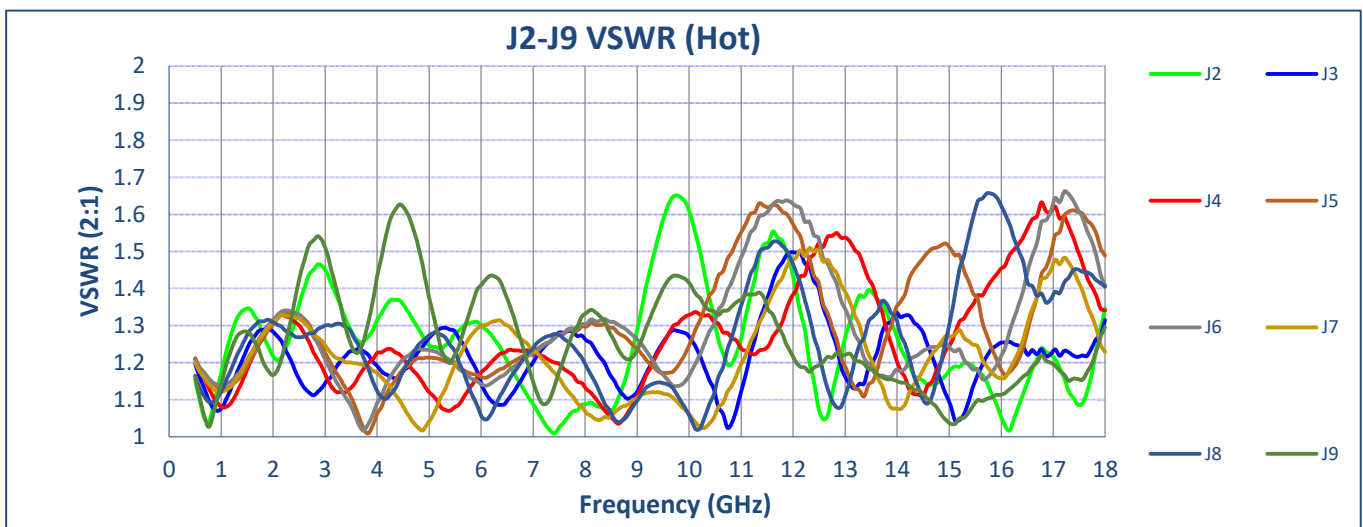
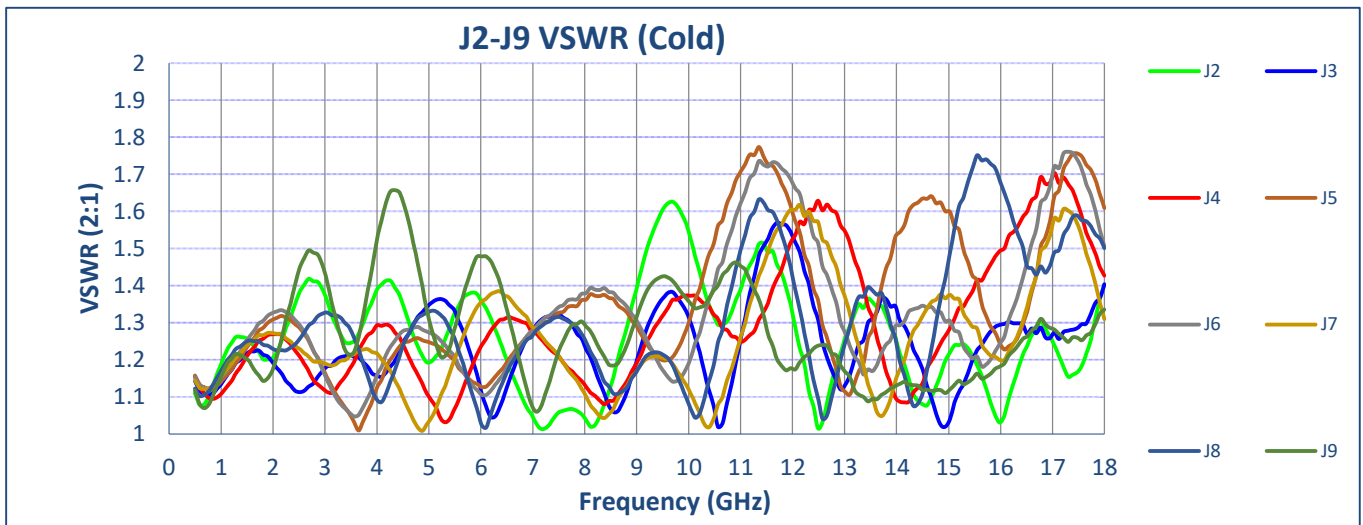
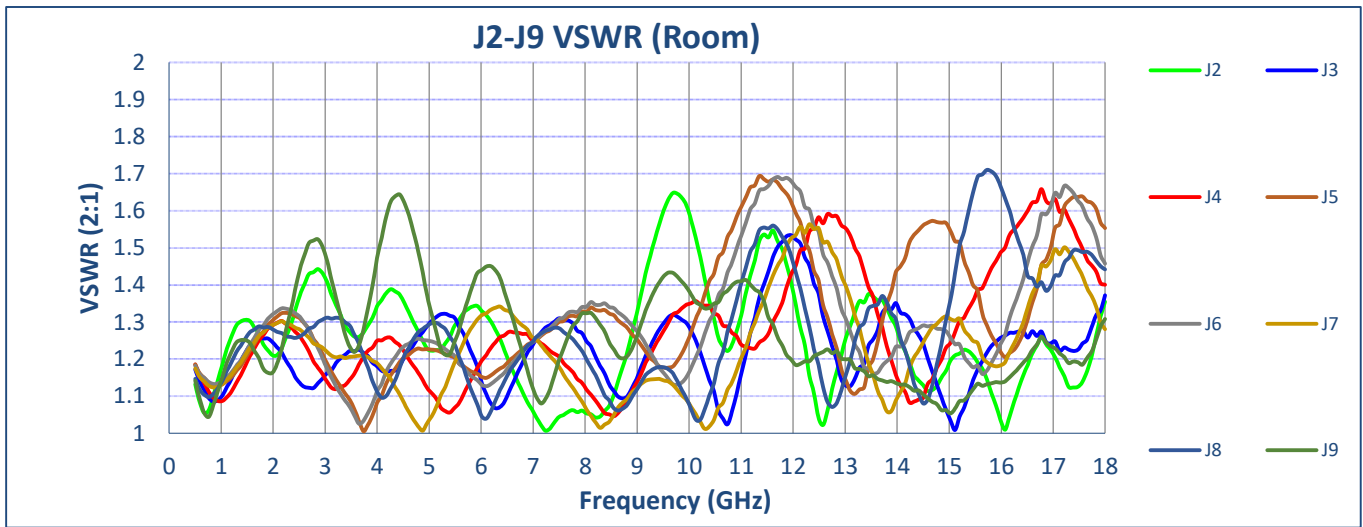
TEST DATA

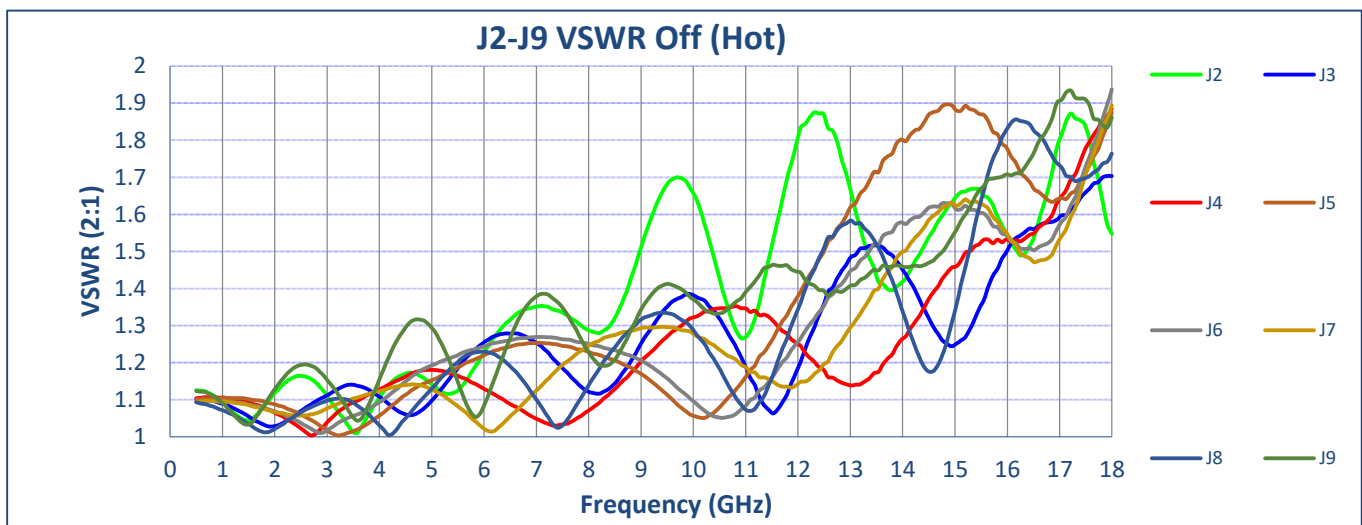
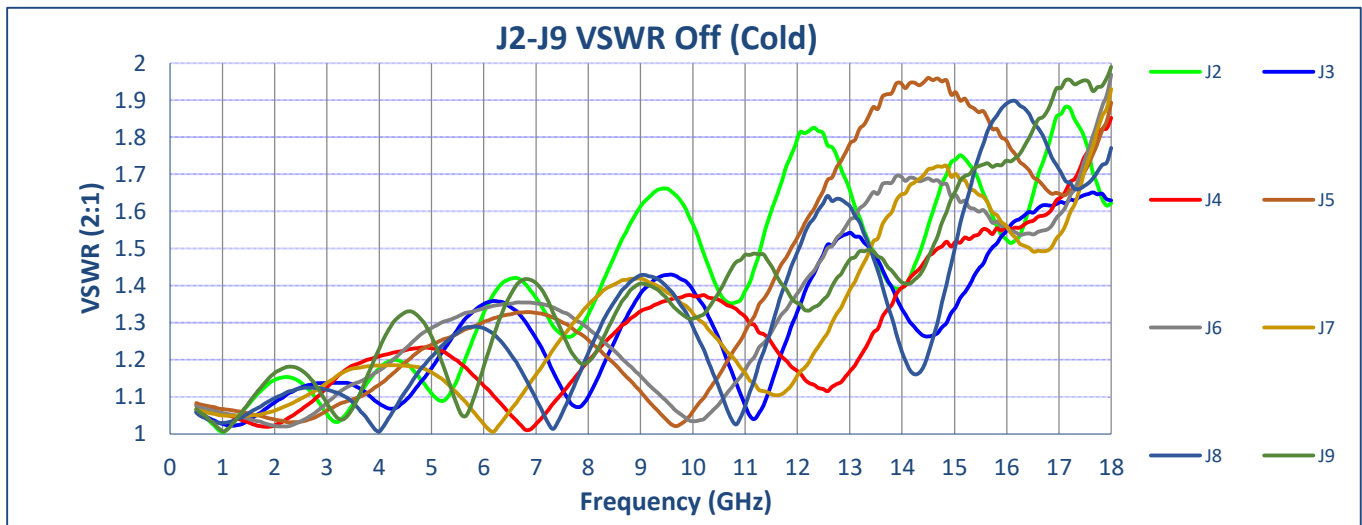
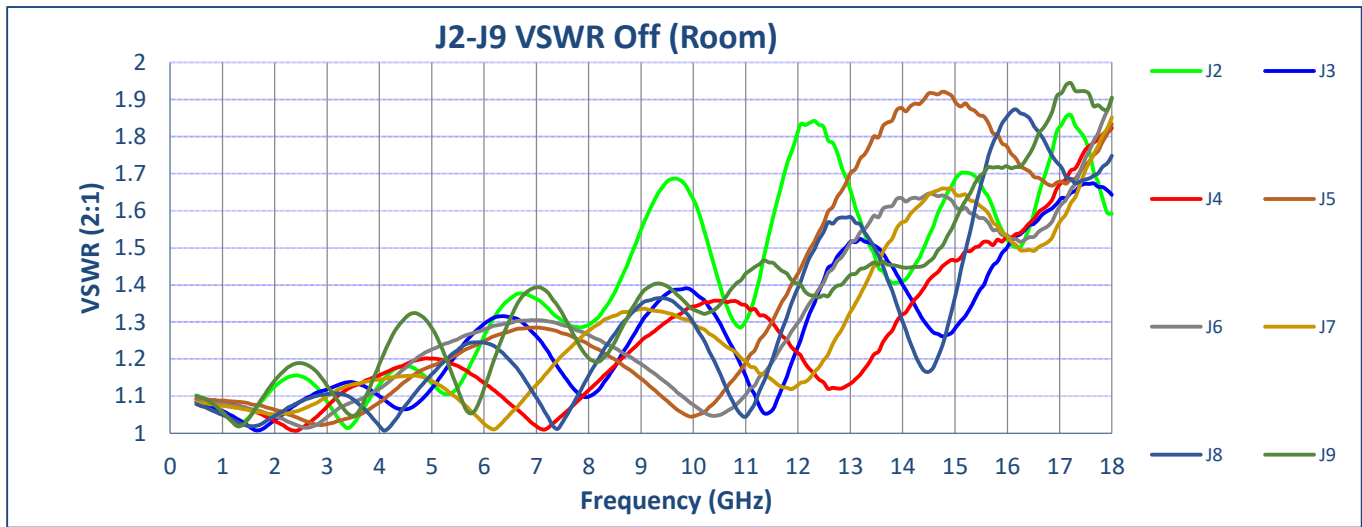
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-55°C	85°C
1	Frequency Range	0.5 GHz to 18 GHz	0.5 GHz to 18 GHz	0.5 GHz to 18 GHz	0.5 GHz to 18 GHz
2	Insertion Loss	5 dB Max.	4.53 dB	4.08 dB	4.92 dB
3	Isolation	60 dB Min., 0.5-2 GHz 70 dB Min., 2-18 GHz	90.3 dB 78.4 dB	89.7 dB 79.7 dB	90.7 dB 79.4 dB
4	VSWR: In/Out	2:1 Max.	1.81:1 In 1.71:1 Out	1.84:1 In 1.77:1 Out	1.8:1 In 1.66:1 Out
5	VSWR Output/Off	2:1 Max.	1.94:1	1.99:1	1.94:1
6	Rise/Fall Time	15 ns Max. Rise 10 ns Typ. Rise	Rise: 3.3 ns Fall: 3.7 ns		
7	Delay On/Off	100 ns Max. On 75 ns Typ. On	On: 39.2 ns Off: 28.0 ns		
8	Input Power	+20 dBm CW Max Operating	Pass +20 dBm CW See Plot		
9	Survival Power	1 Watts CW Max 10 Watts Peak 1 uS Pulse Width 1% Duty	Pass 10 Watts Peak See Plot		
10	Power Supply	5 V @ 400 mA Typ -5 V @ 100 mA Typ	5 V @ 180 mA -5 V @ 48 mA	5 V @ 177 mA -5 V @ 53 mA	5 V @ 182 mA -5 V @ 54 mA

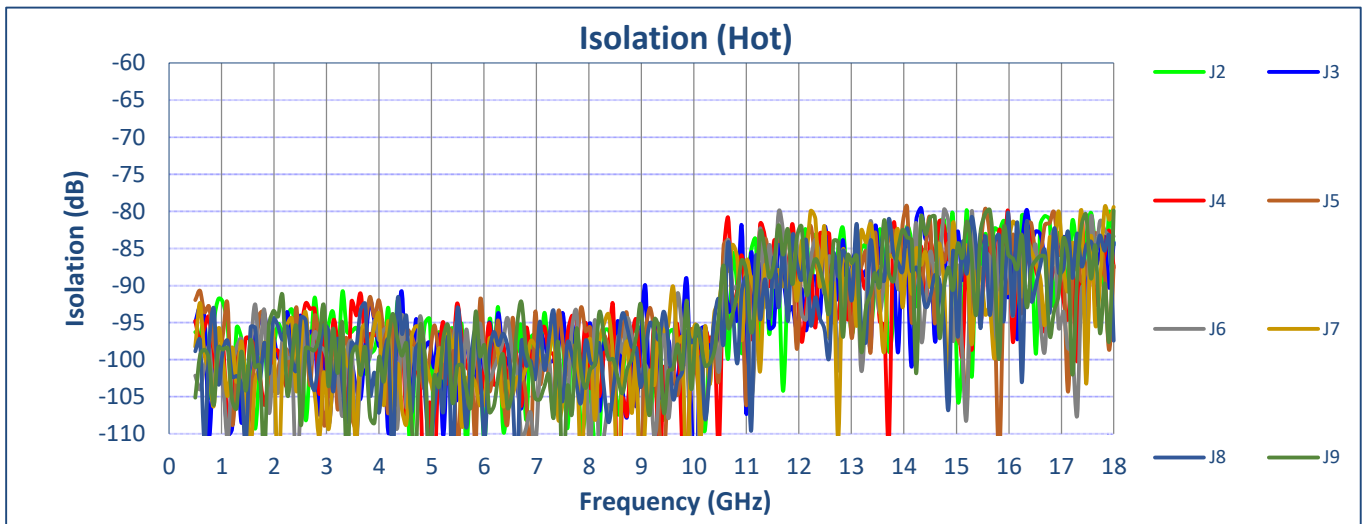
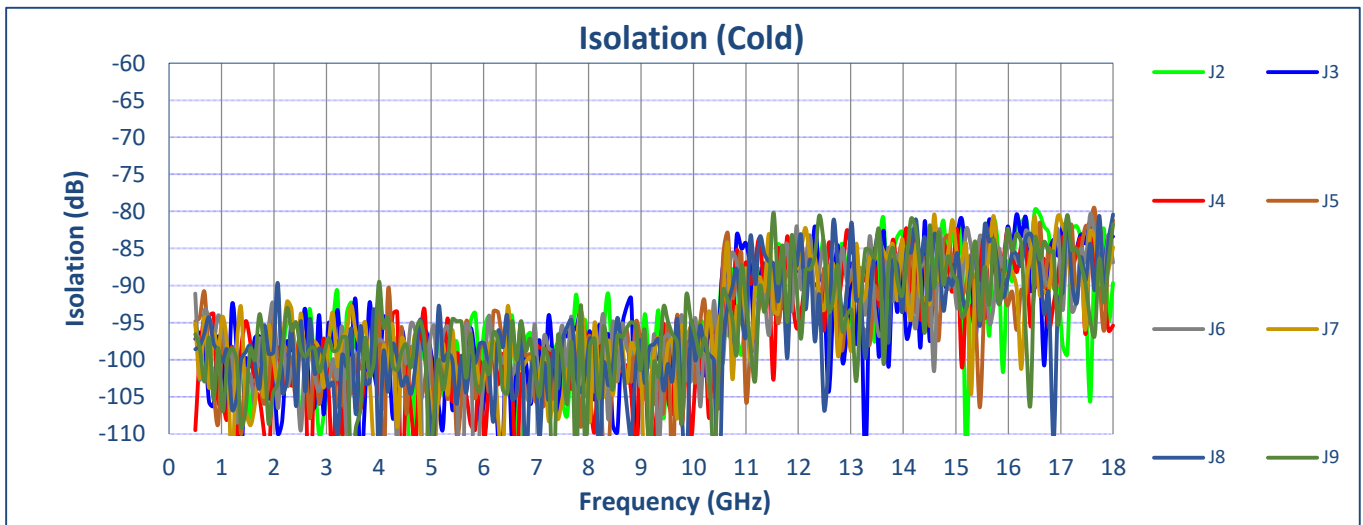
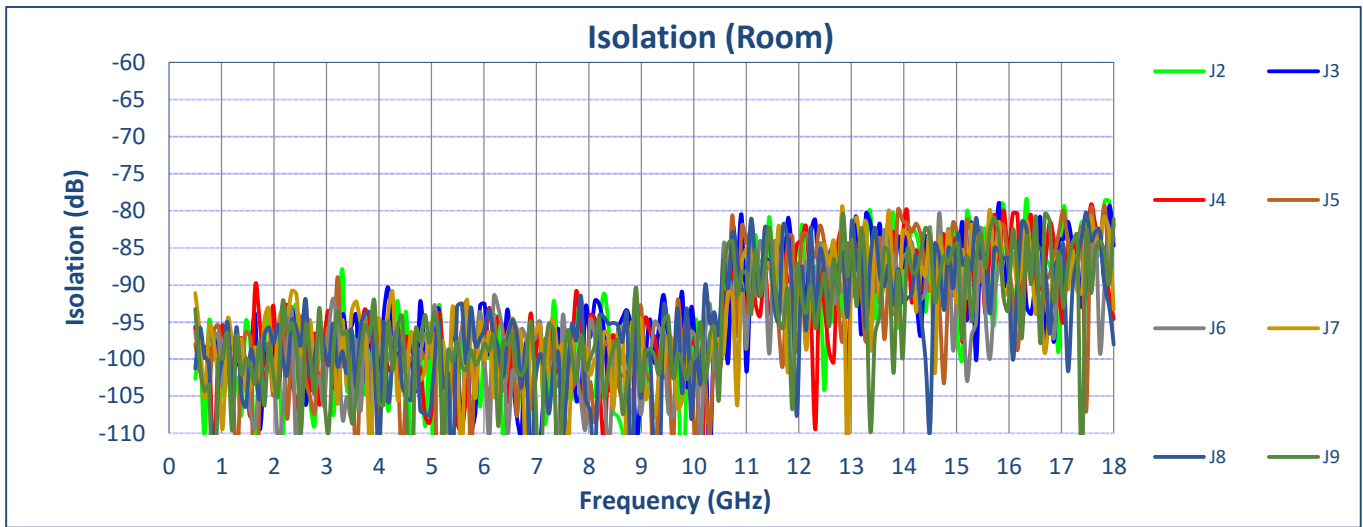


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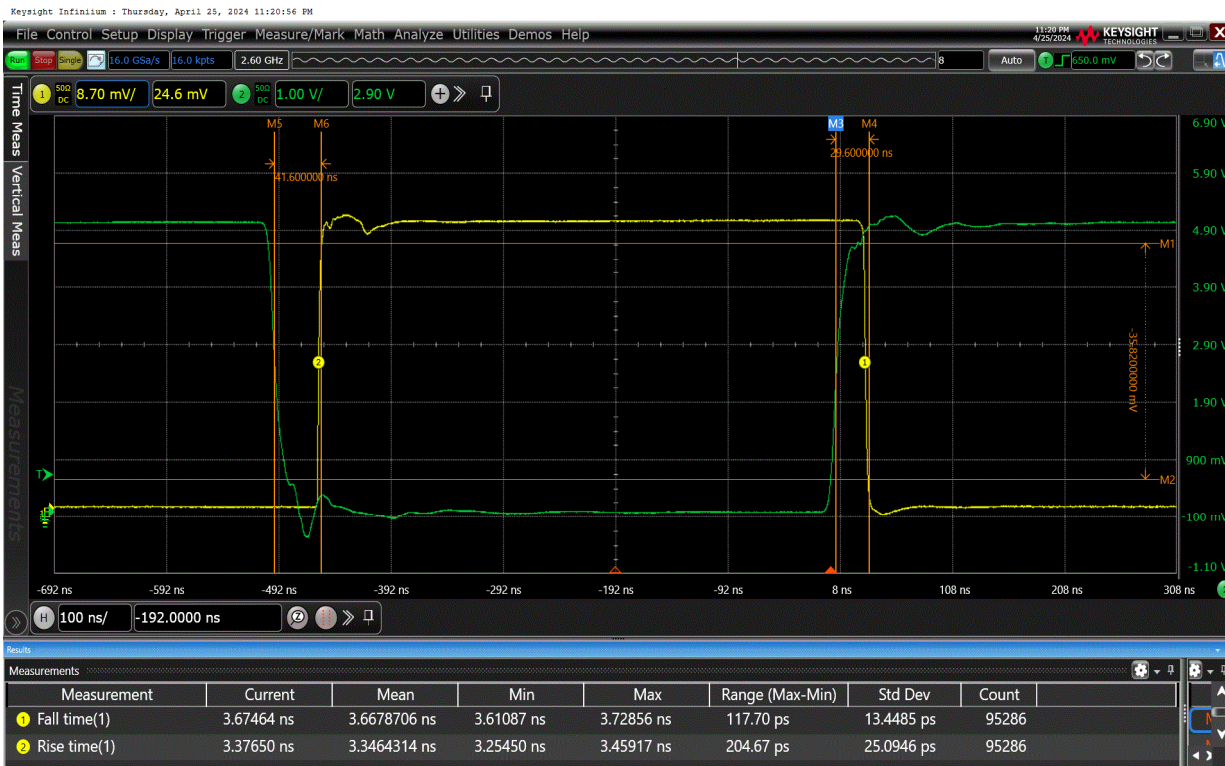








SWITCHING SPEED

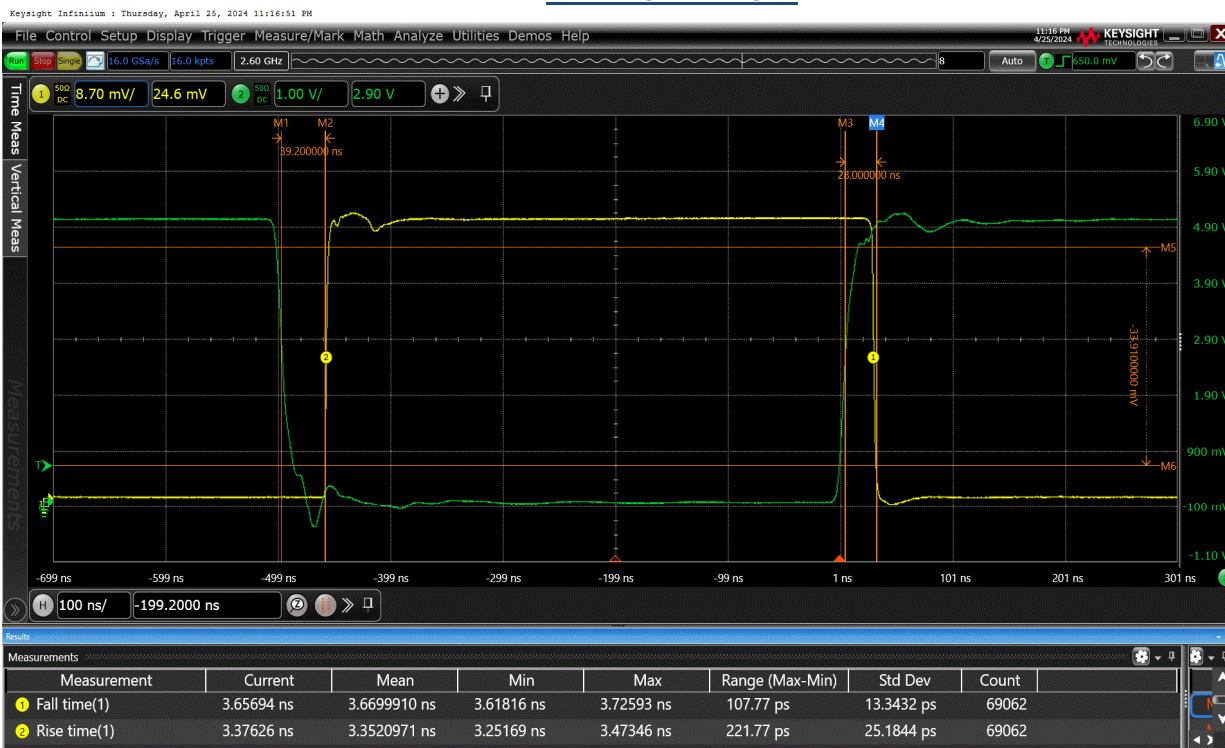


GREEN=TTL
YELLOW=RF

RISE = 3.4 ns
FALL = 3.7 ns

SWITCHING
ON = 41.6 ns
OFF = 29.6 ns

DELAY ON AND OFF

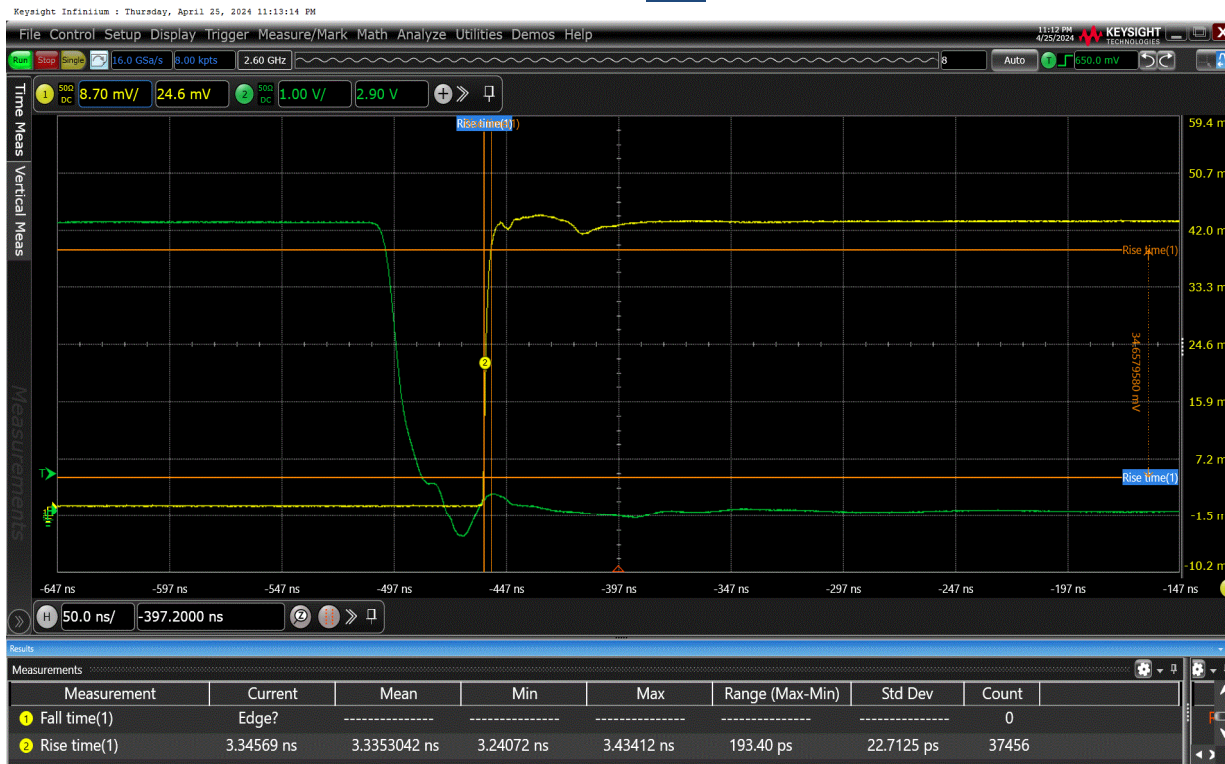


GREEN=TTL
YELLOW=RF

On = 39.2 ns
Off = 28 ns

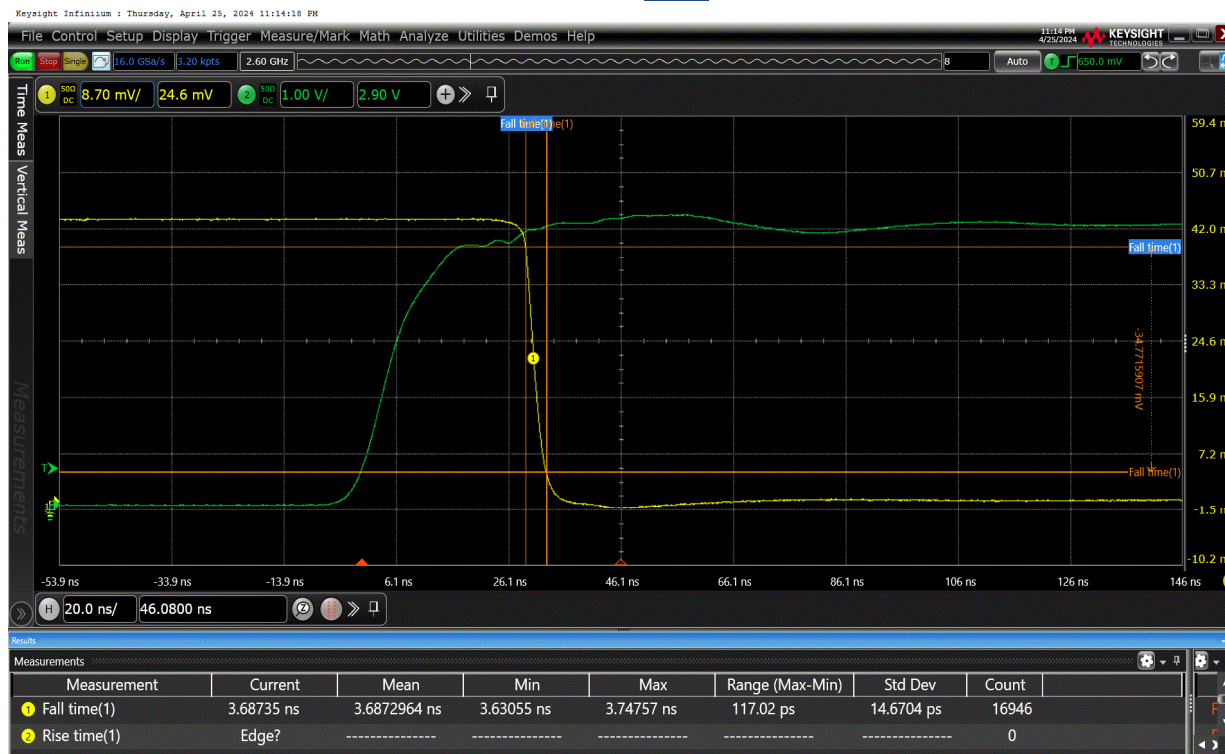
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RISE



GREEN=TTL
YELLOW=RF
Rise = 3.3 ns

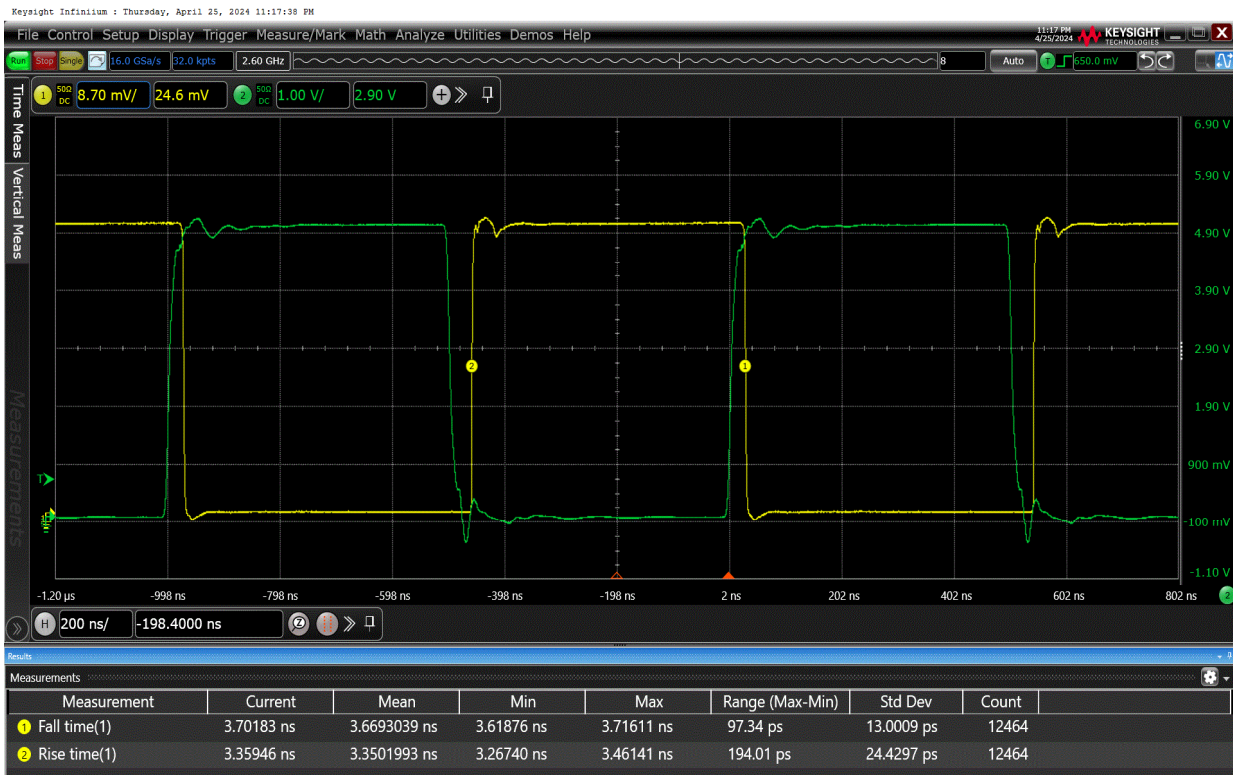
FALL



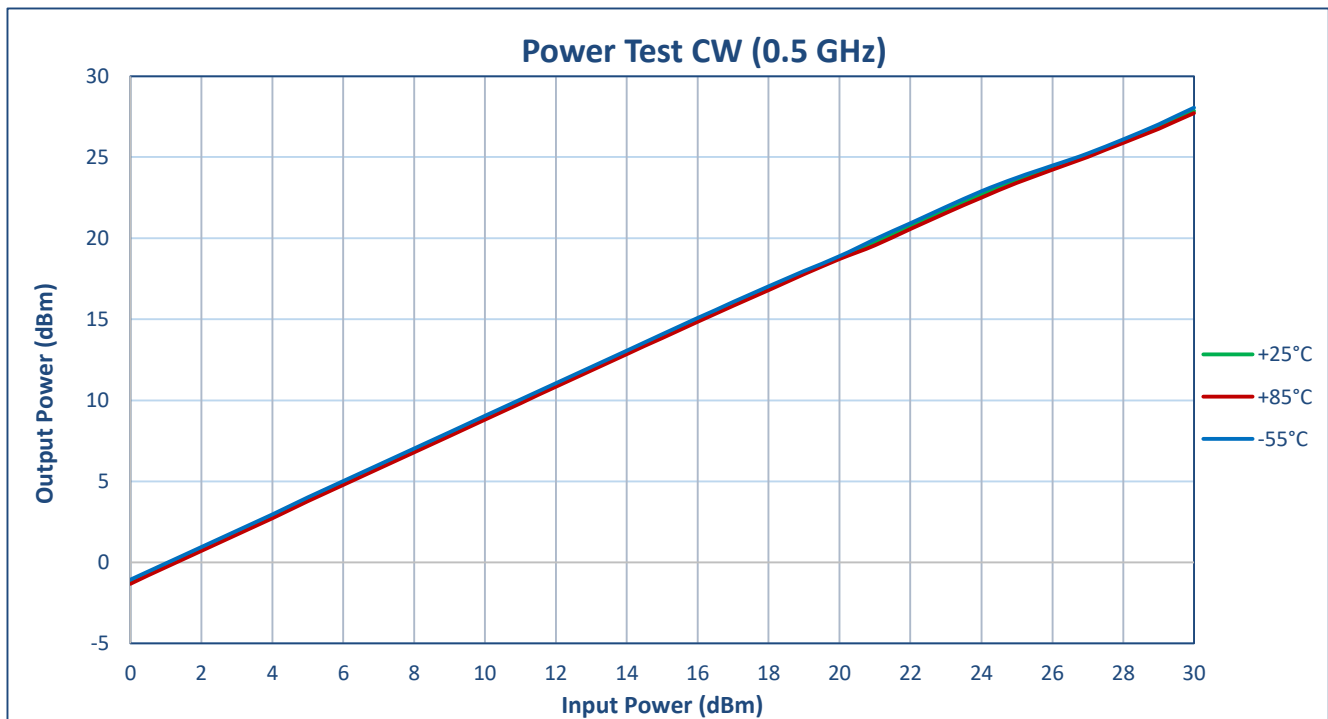
GREEN=TTL
YELLOW=RF
Fall = 3.7 ns

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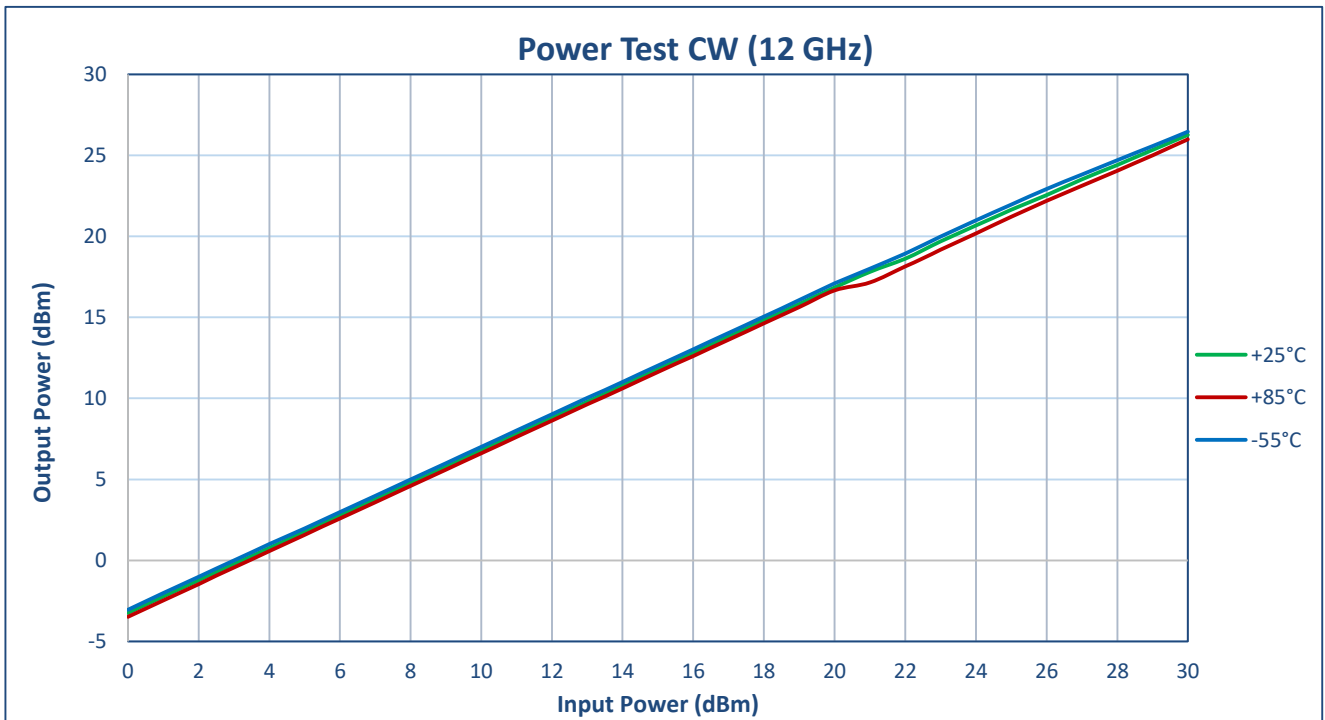
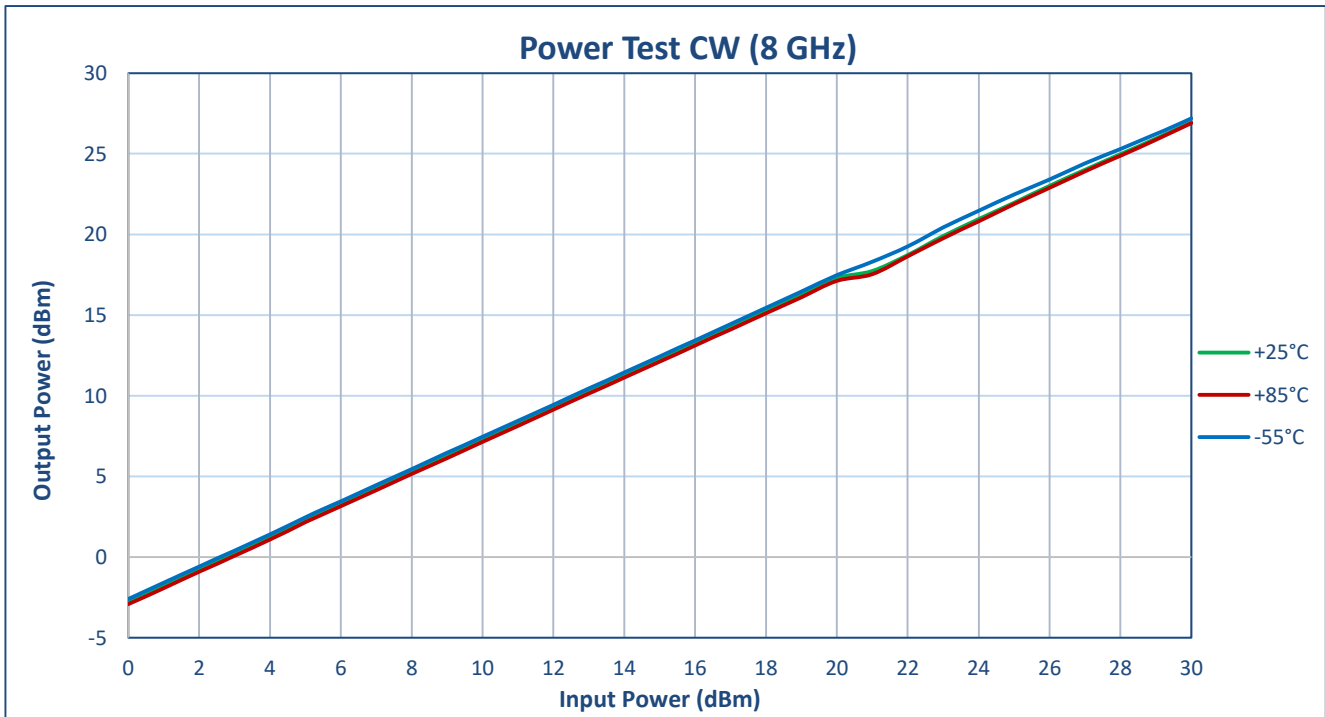
FULL PULSE



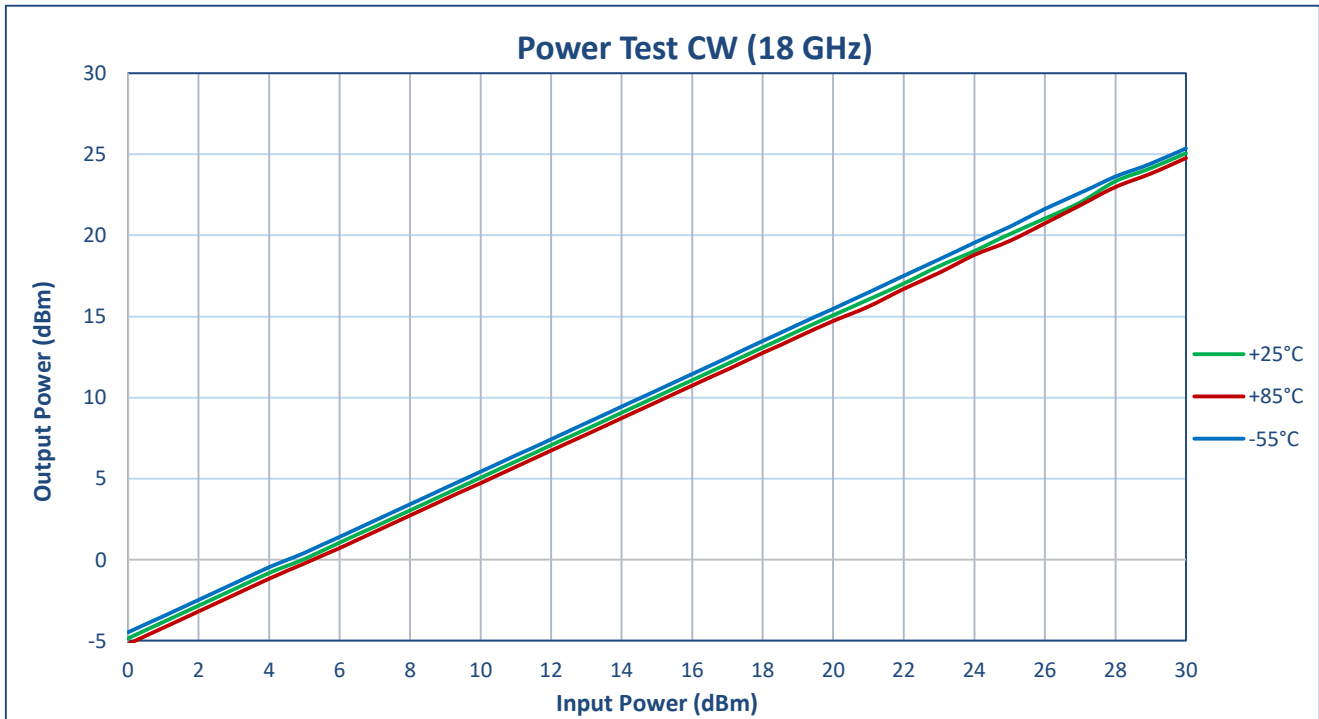
GREEN=TTL
YELLOW=RF



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PEAK POWER (3GHz)



