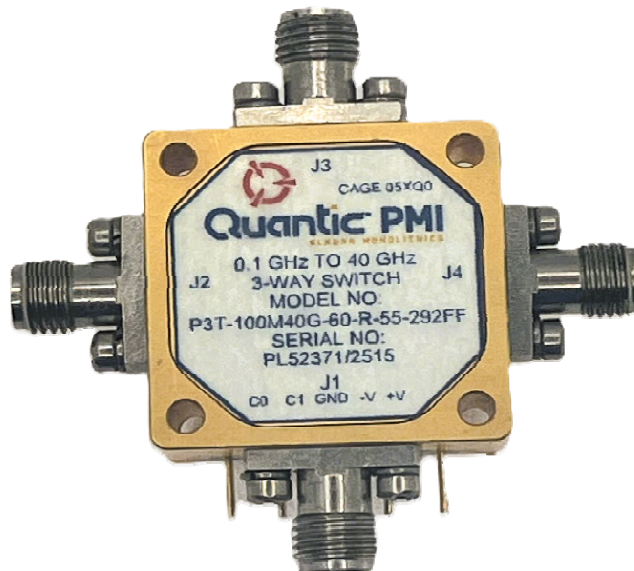


**TYPICAL CHARACTERISTICS
ON
P3T-100M40G-60-R-55-292FF**

PMI MODEL P3T-100M40G-60-R-55-292FF IS A REFLECTIVE, SINGLE POLE, THREE THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.



**Tested & Reported By: J Escano
Date: 4/9/2025**

**TYPICAL CHARACTERISTICS
ON
P3T-100M40G-60-R-55-292FF**

PRODUCT FEATURE

DESCRIPTION:

PMI MODEL P3T-100M40G-60-R-55-292FF IS A REFLECTIVE, SINGLE POLE, THREE THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.1 GHz TO 40 GHz
- ISOLATION:..... 55 dB MIN
- INSERTION LOSS:..... 5.5 dB TYP
- VSWR IN/OUT:..... 2.5:1 TYP
- INPUT POWER:..... +20 dBm CW TYP
- SURVIVAL POWER:..... 1W PEAK 1 us PULSE WIDTH
- RF SWITCHING SPEED:..... RISE: 15 ns TYP
FALL: 15 ns TYP
DELAY ON: 50 ns TYP
DELAY OFF: 50 ns TYP
- DC VOLTAGE:..... +5 V @ 200 mA TYP
-5 V @ 100 mA TYP
- CONTROL SIGNAL:..... TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS IN/OUT:..... 2.92 mm FEMALE CONNECTORS
- CONTROL CONNECTORS:..... SOLDER PINS
- SIZE:..... 1.0" X 1.0" X 0.5"
- FINISH:..... GOLD PLATED

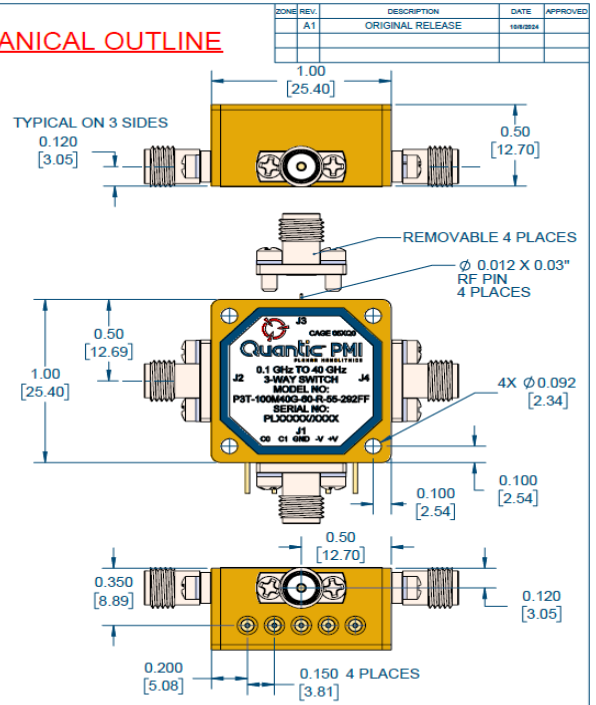
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

MECHANICAL OUTLINE

CTL 1	CTL 0	J1-J2	J1-J3	J1-J4
0	0	ON	OFF	OFF
0	1	OFF	ON	OFF
1	0	OFF	OFF	ON
1	1	OFF	OFF	OFF



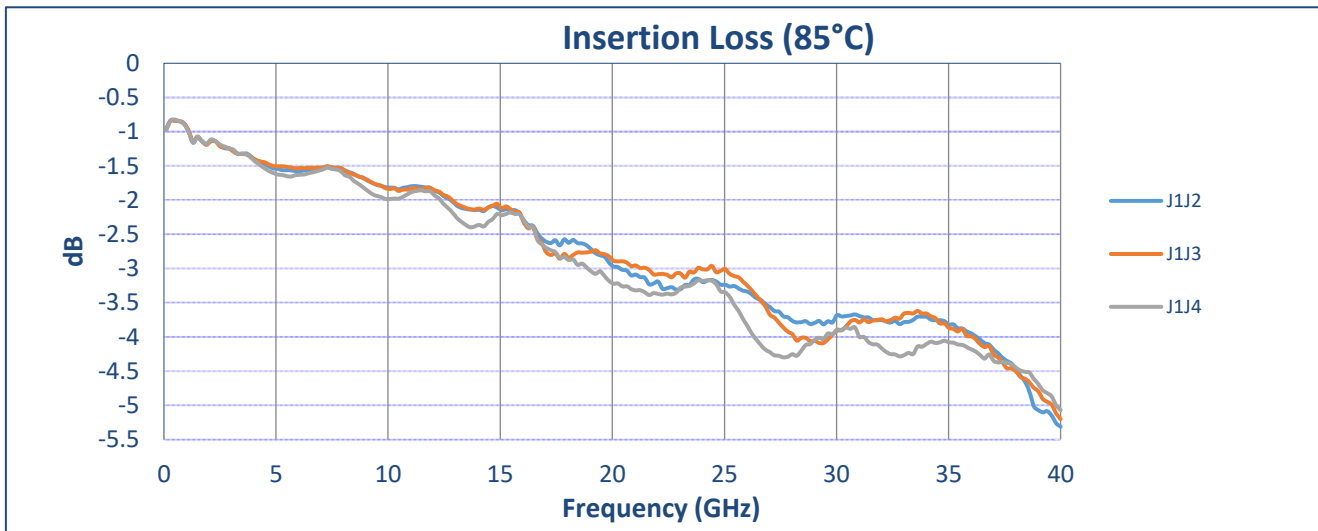
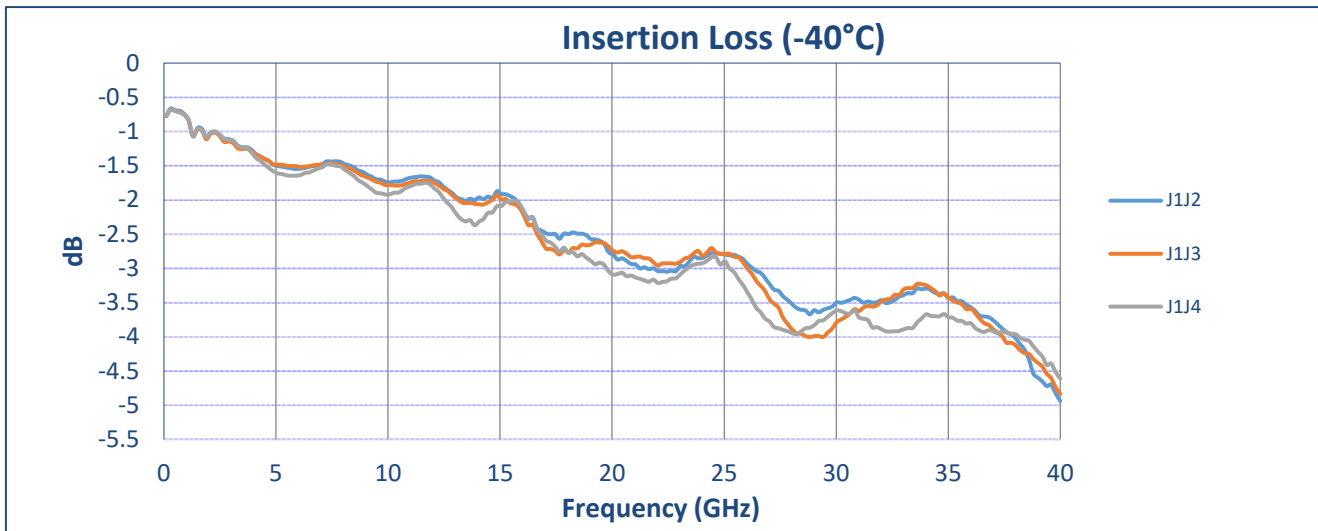
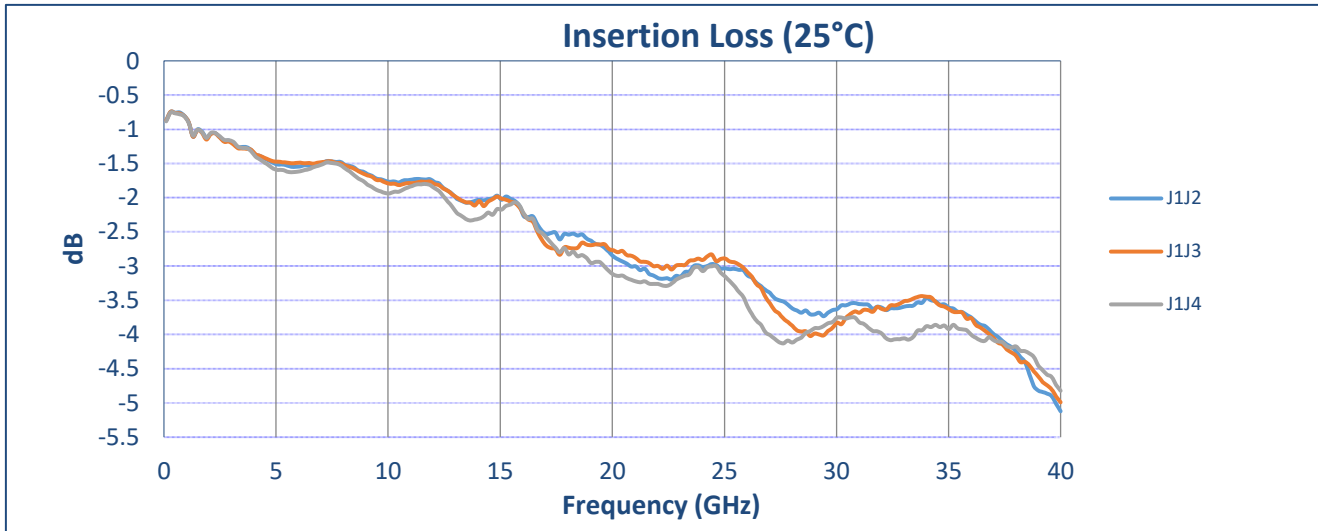
PMI CONFIDENTIAL AND PROPRIETARY

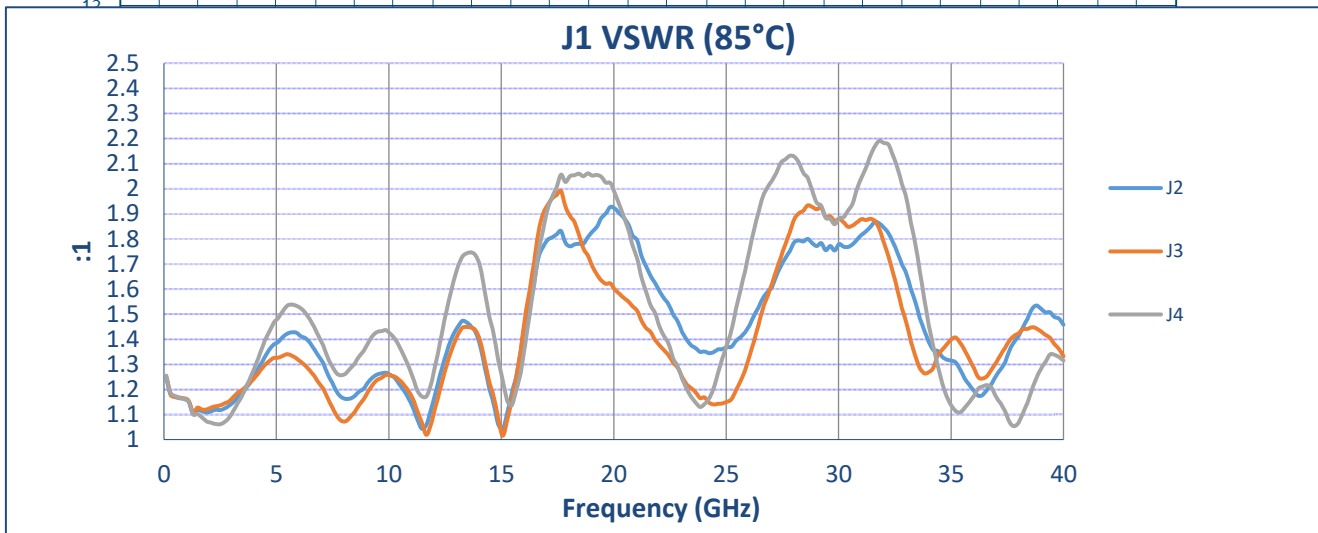
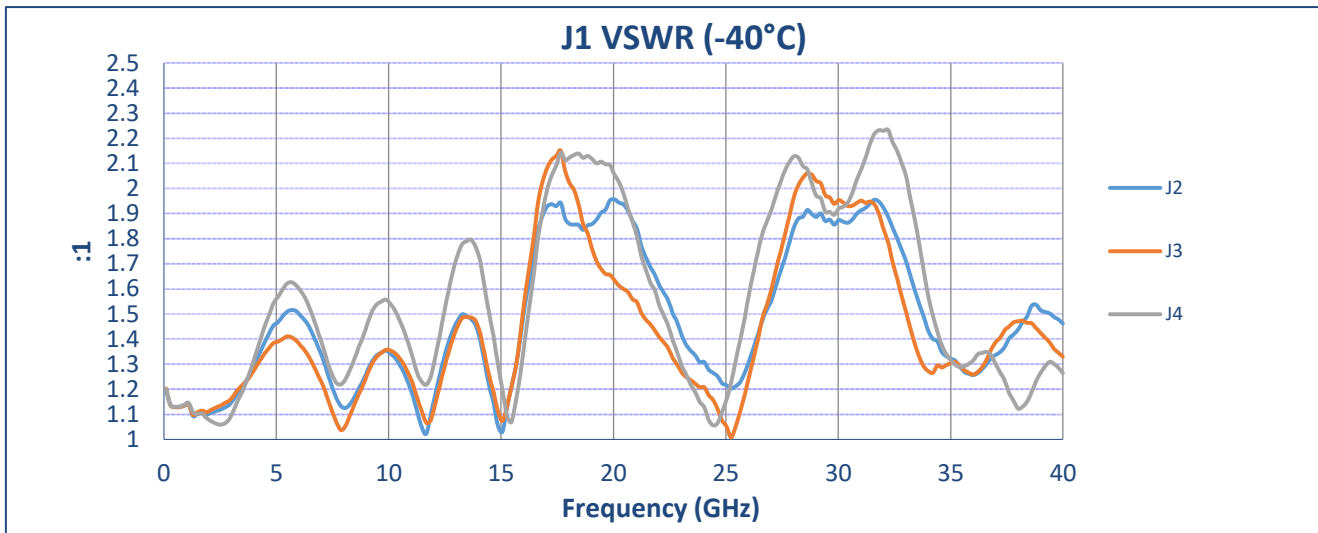
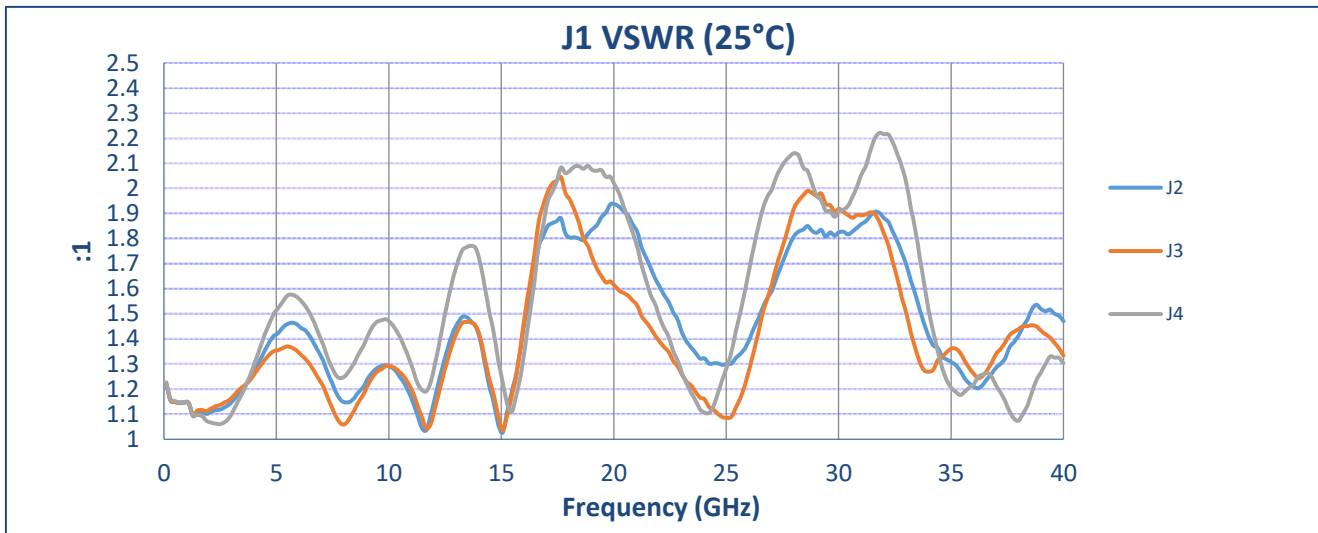
<small>USE THE DIMENSIONS SPECIFIED UNLESS INDICATED OTHERWISE FRACTIONS DECIMALS ANGLES ° ' " JUL 7 8:00 AM '02</small>		<small>PART NO.</small> Quantic PMI <small>7309-A GROVE ROAD FREDERICK, MARYLAND 21704 USA WEB: WWW.QUANTICPMI.COM FAX: 301.662.1731 ISO 9001 CERTIFIED</small>	
<small>MATERIAL:</small> S LANGE		<small>APPROVALS DATE</small> <small>DATE</small> 10/02/04 <small>TITLE</small> OUTLINE	
<small>FINISH:</small>		<small>SIZE</small> B <small>FORM NO.</small> 55XGQ <small>DWG NO.</small> 27049620 <small>SCALE</small> 2:1	
<small>NEXT ASSY</small> USED ON APPLICATION		<small>REV</small> A1 <small>SHEET</small> 1 OF 1	

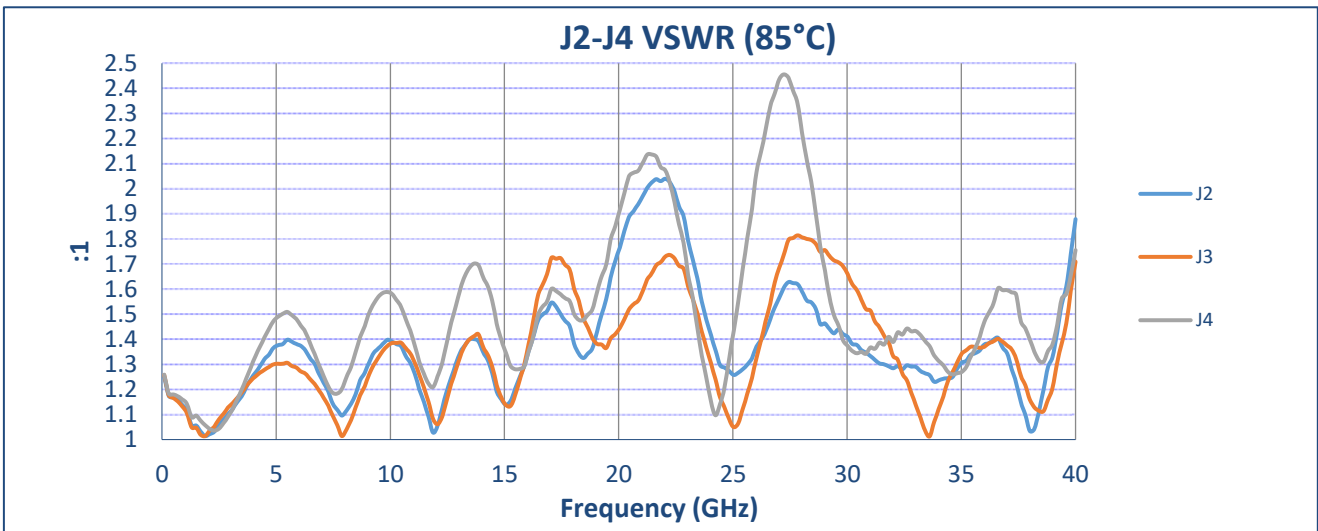
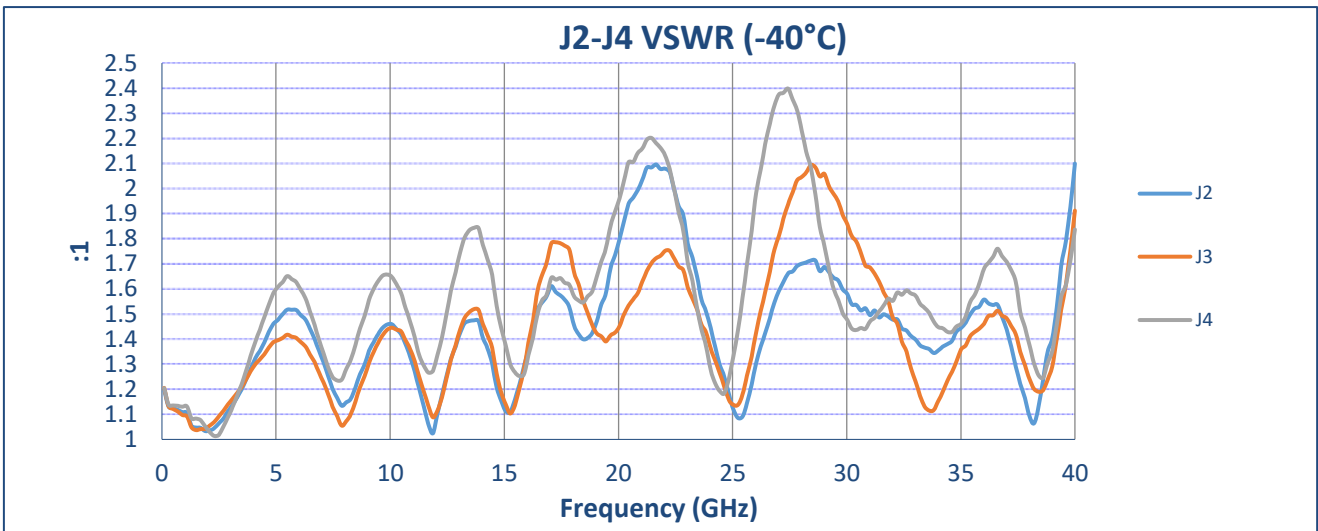
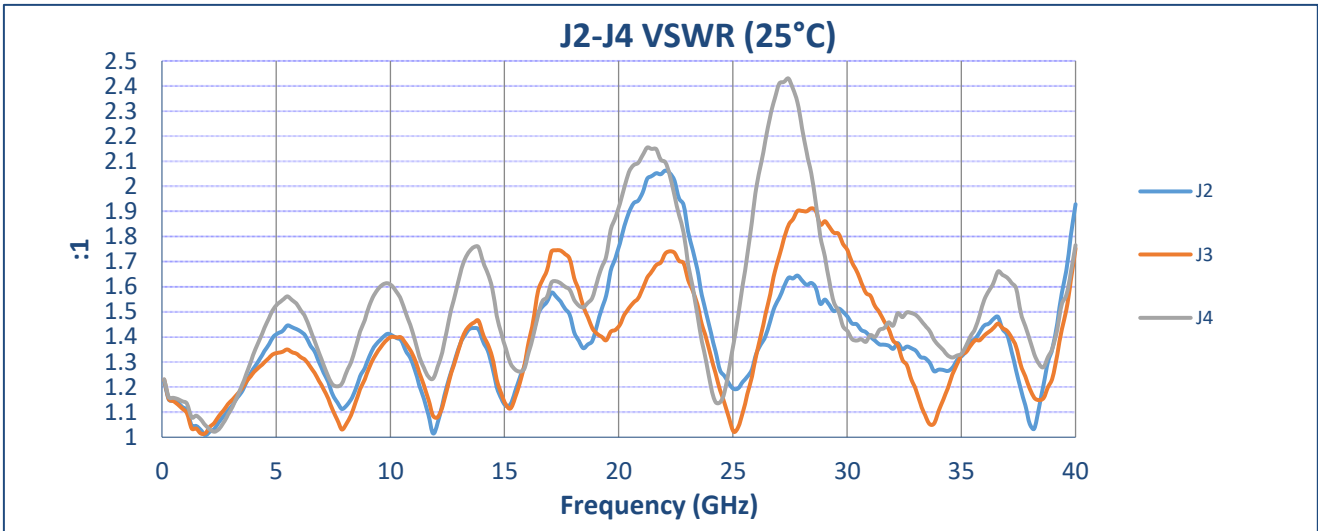
**TYPICAL CHARACTERISTICS
ON
P3T-100M40G-60-R-55-292FF**

TEST DATA

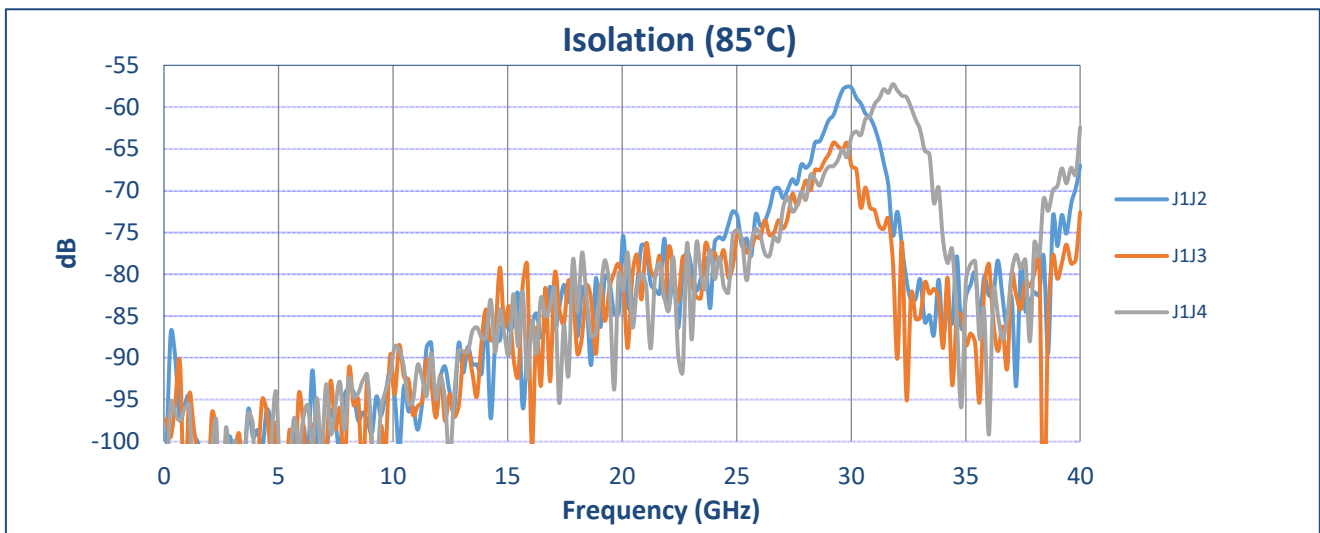
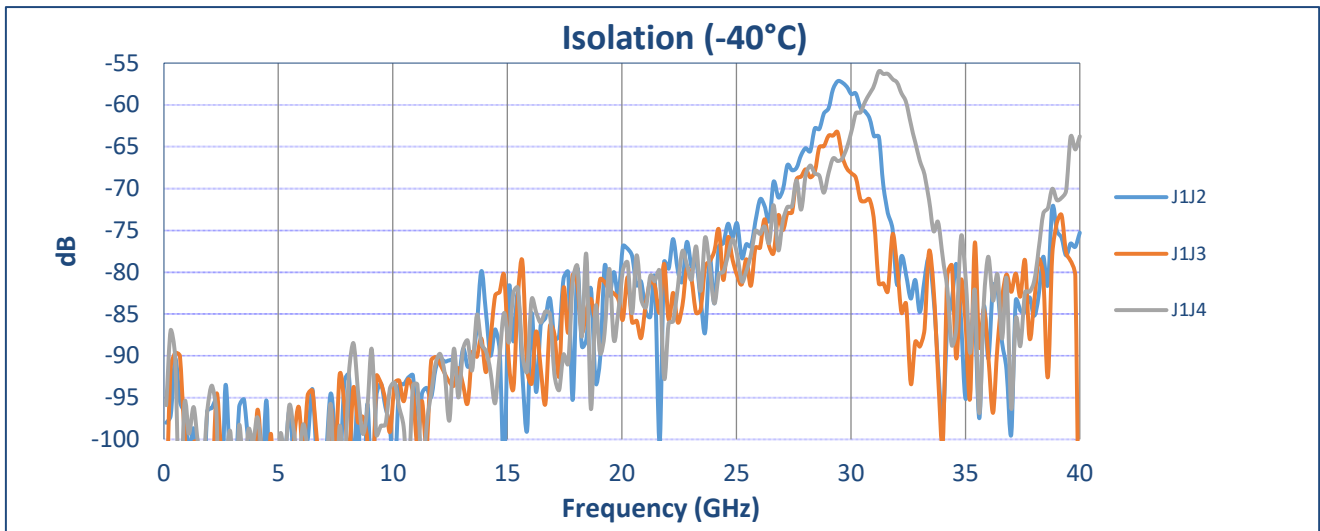
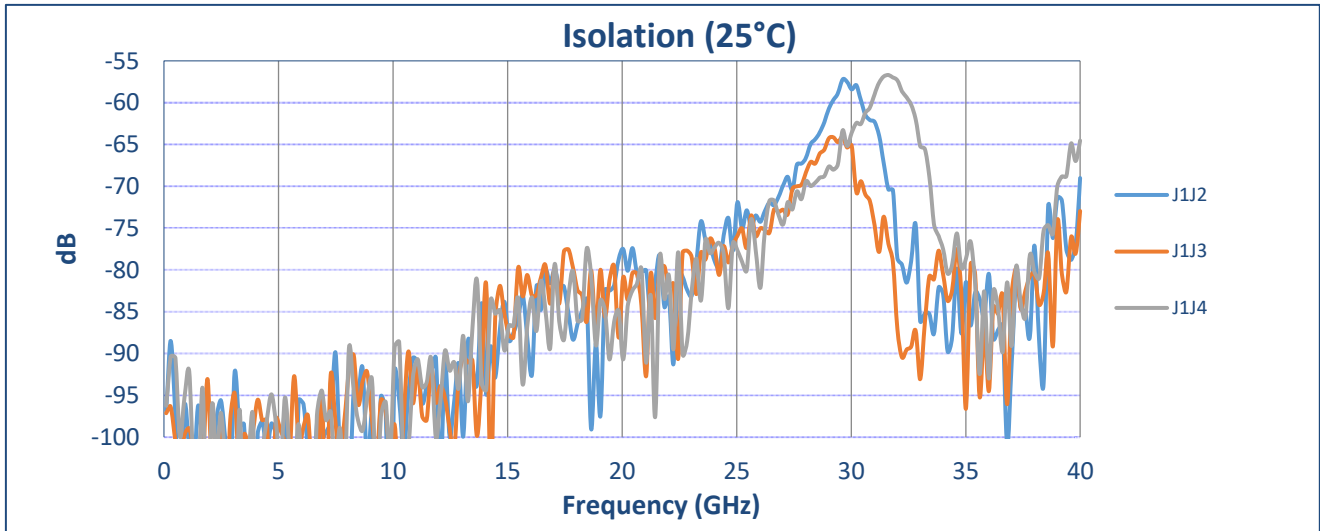
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-40°C	85°C
1	Frequency Range	0.1 GHz to 40 GHz	0.1 GHz to 40 GHz		
2	Isolation	55 dB Min	56.7 dB	56 dB	57.3 dB
3	Insertion Loss	5.5 dB Typ	5.1 dB	4.9 dB	5.3 dB
4	VSWR In/Out	2.5:1 Typ	2.4:1	2.4:1	2.5:1
5	Input Power	+20 dBm CW Typ	+20 dBm CW		
6	Survival Power	1W Peak 1 us Pulse Width	1W Peak 1 us Pulse Width		
7	Switching Speed	Rise: 15 ns Typ Fall: 15 ns Typ Delay On: 50 ns Typ Delay Off: 50 ns Typ	Rise: 4 ns Fall: 5 ns Delay On: 44 ns Delay Off: 35 ns		
8	DC Voltage	+5V @ 200 mA Typ -5V @ 100 mA Typ	+5 V @ 165 mA -5 V @ 22 mA	+5 V @ 164 mA -5 V @ 21 mA	+5 V @ 165 mA -5 V @ 22 mA



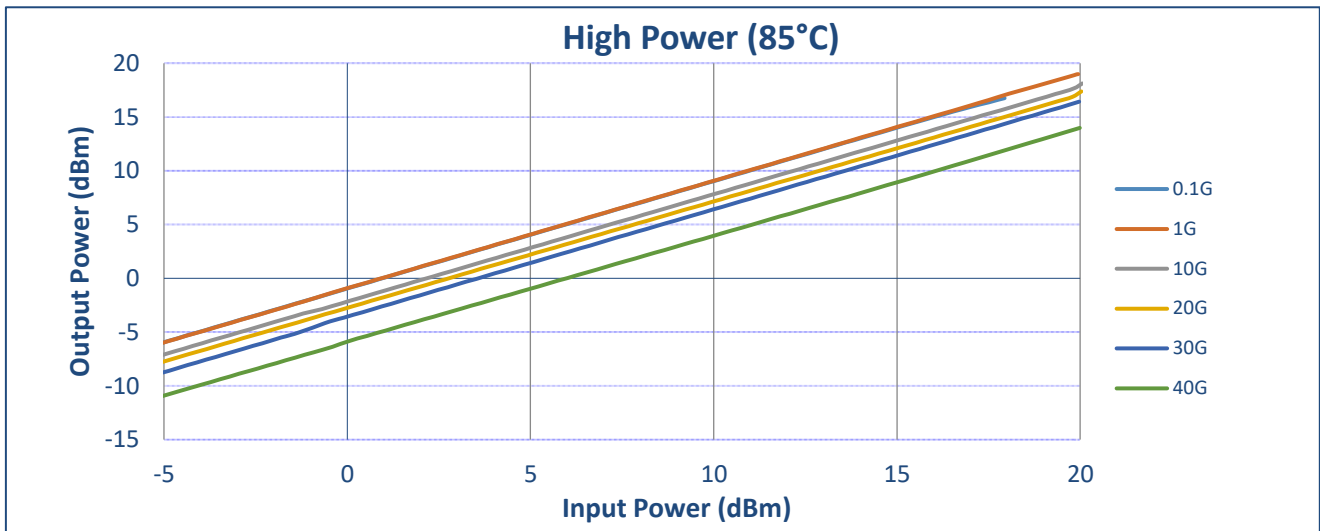
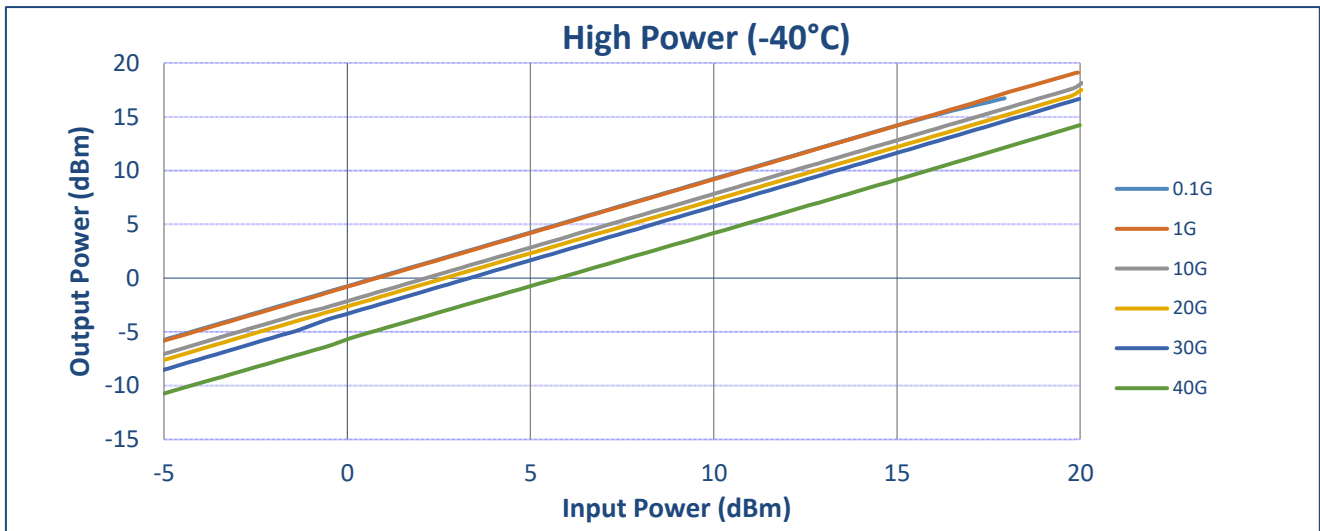
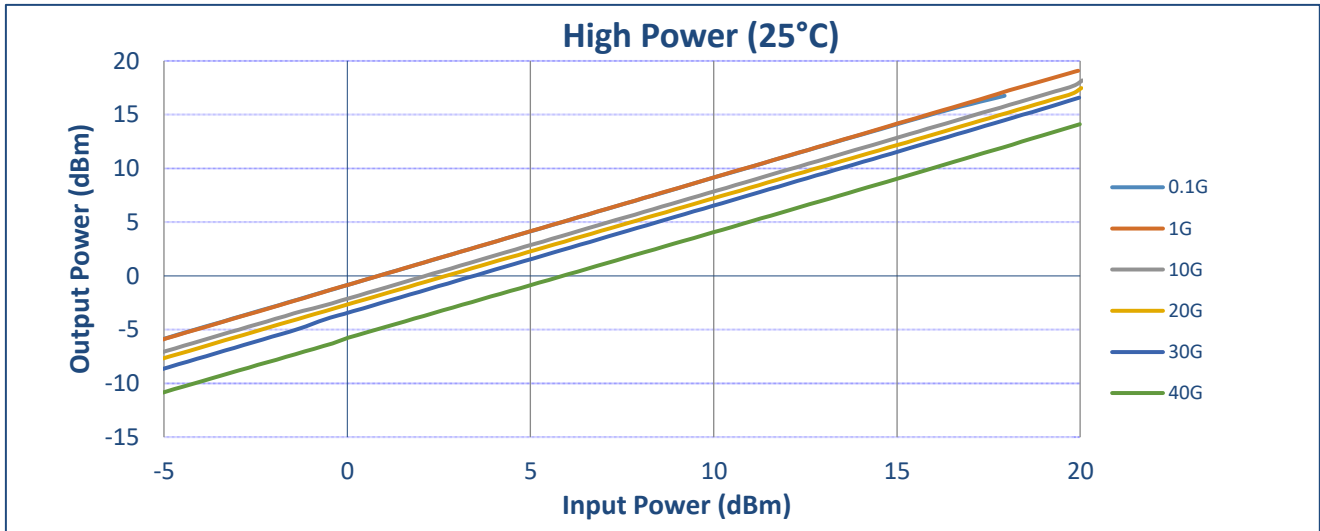




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 Email: sales@quanticpmi.com

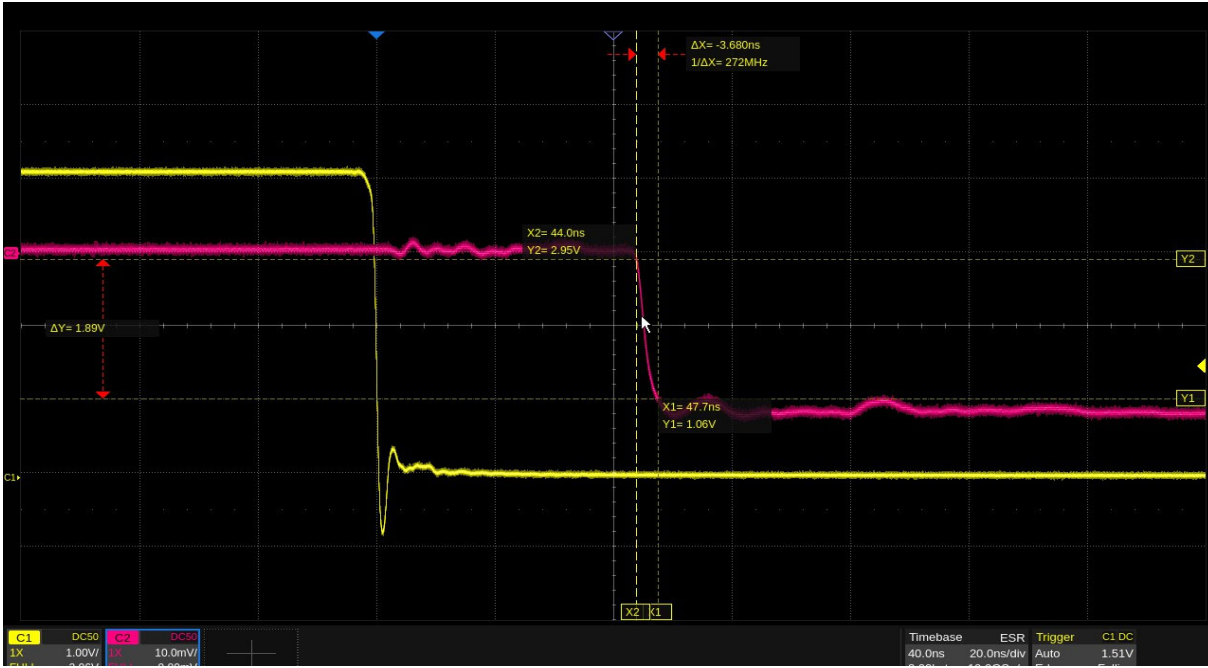


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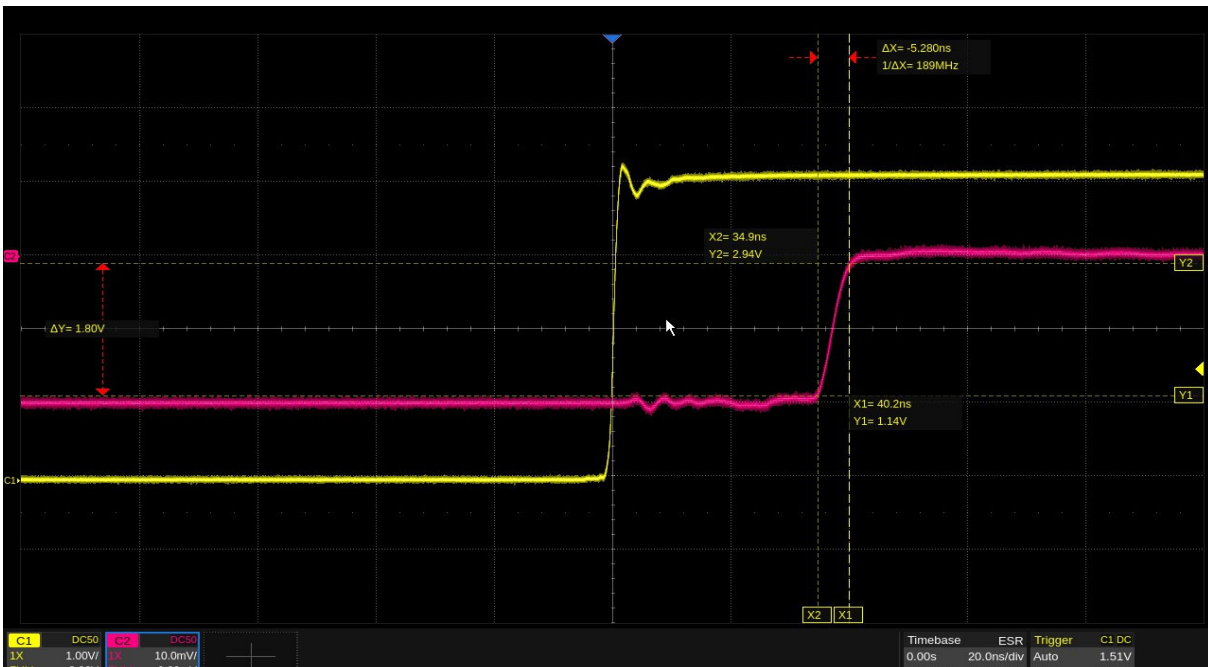


Rise/Fall

Pink - RF, Yellow - TTL



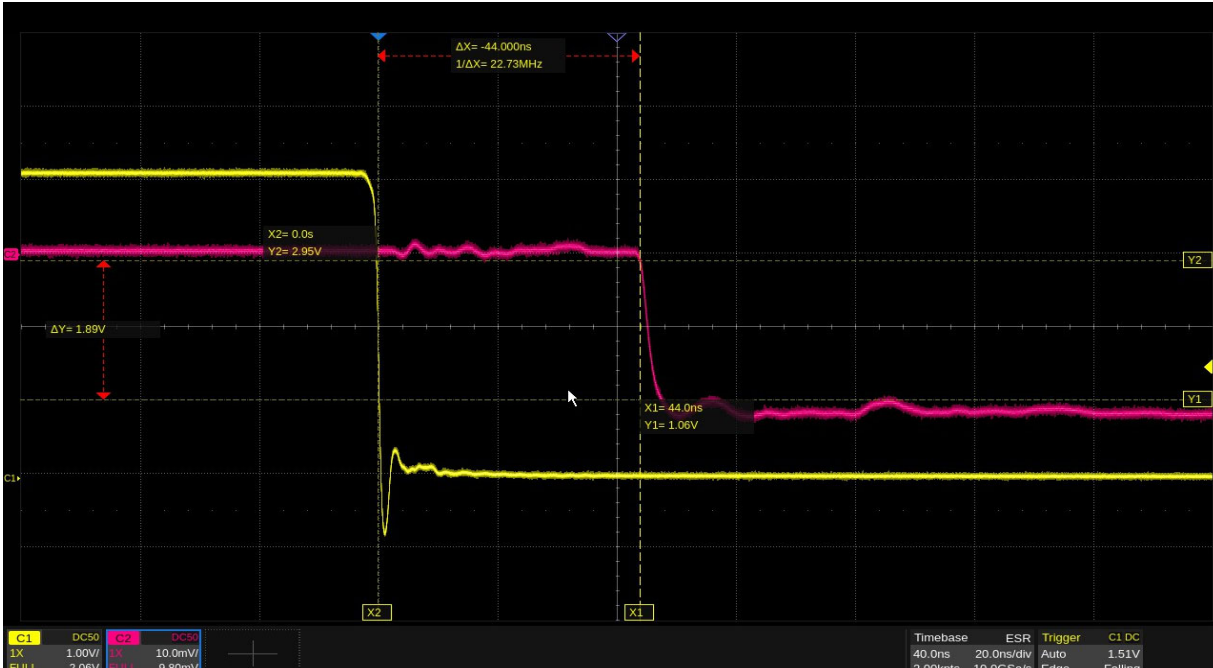
Rise - 4 ns



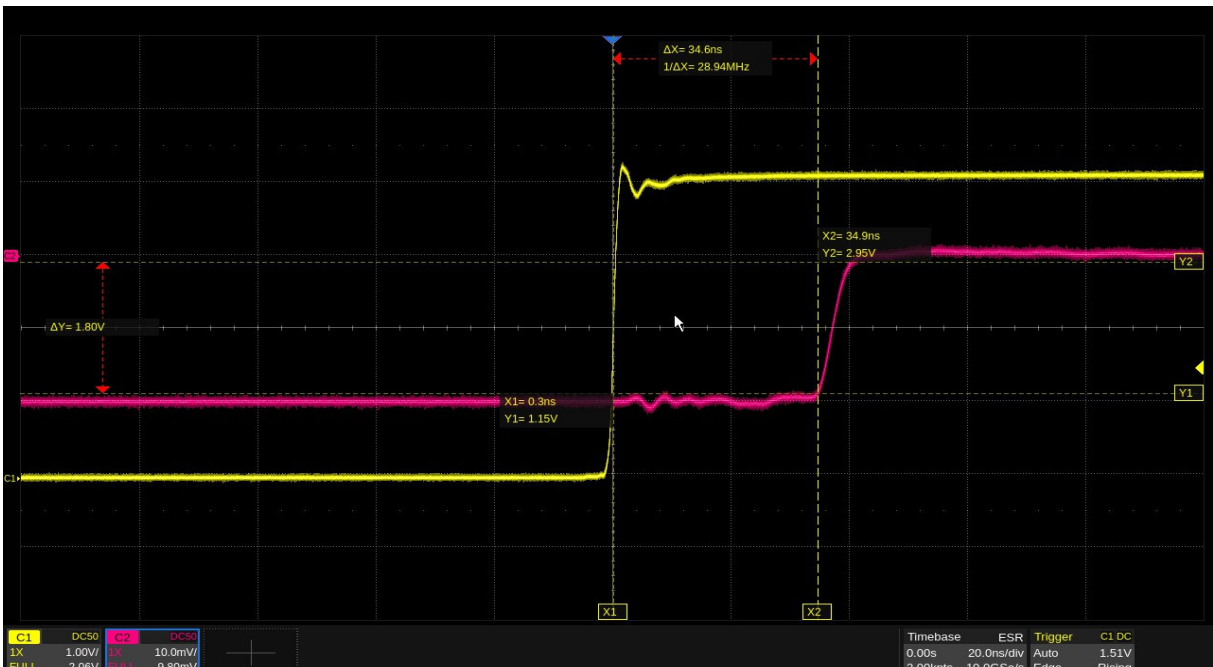
Fall - 5 ns

Delay On/Off

Pink - RF, Yellow - TTL



Delay On - 44 ns



Delay Off - 35 ns

Full Pulse

Pink - RF, Yellow - TTL

