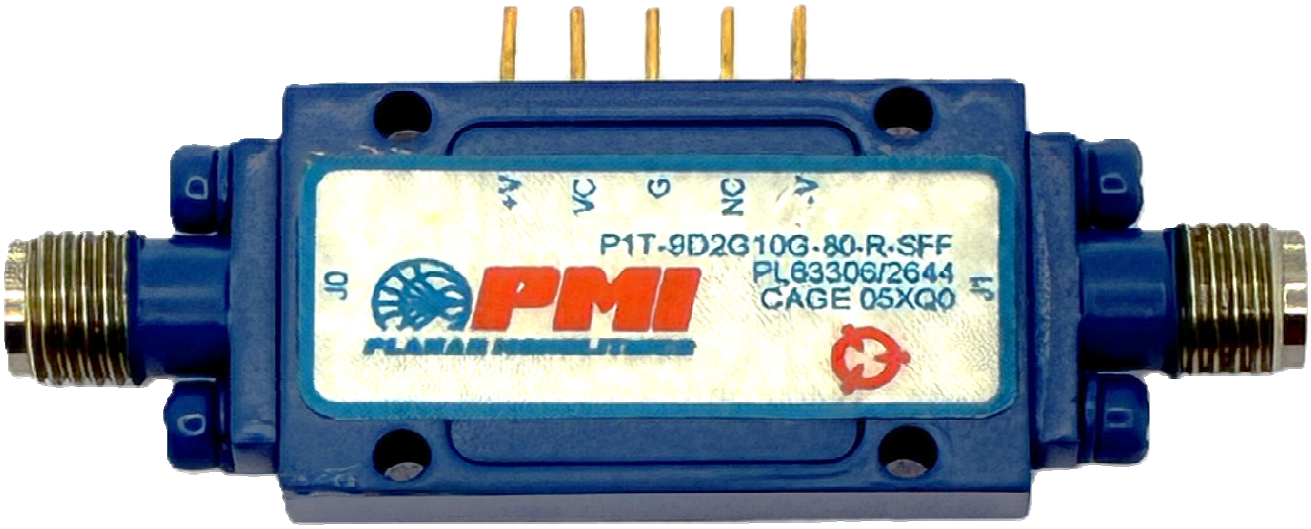
TYPICAL CHARACTERISTICS
ON
P1T-9D2G10G-80-R-SFF

PMI MODEL P1T-9D2G10G-80-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 9.2 TO 10 GHz AND FEATURES A SWITCHING SPEED OF 15 ns MAX AND AN ISOLATION OF 80 dB MIN.



Tested By:
K Wagaman
Reported By:
J Escano
10/30/26

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

TYPICAL CHARACTERISTICS
ON
P1T-9D2G10G-80-R-SFF

PRODUCT FEATURE

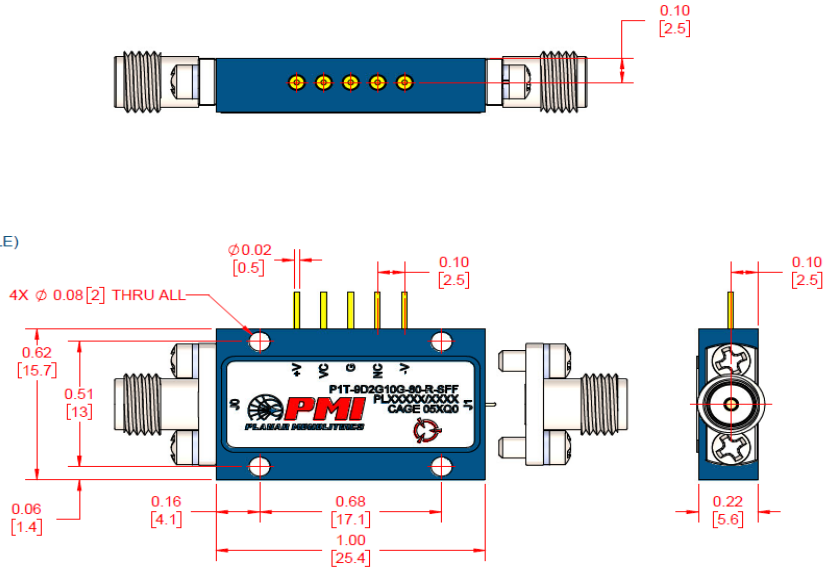
DESCRIPTION:

PMI MODEL P1T-9D2G10G-80-R-SFF IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 9.2 TO 10 GHz AND FEATURES A SWITCHING SPEED OF 15 ns MAX AND AN ISOLATION OF 80 dB MIN.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/22/2026	

SPECIFICATIONS:

- FREQUENCY RANGE: ..... 9.2 TO 10 GHz
- ISOLATION: ..... 80 dB MIN
- INSERTION LOSS: ..... 2.5 dB MAX
- VSWR: ..... 1.5:1 MAX
- INPUT POWER: ..... +20 dBm MAX OPERATIONAL
  +27 dBm MAX SURVIVAL
- SWITCHING SPEED: ..... 15 ns MAX (50% TTL TO 10%/90% RF)
- CONTROL: ..... TTL "1" = INSERTION LOSS
  TTL "0" = ISOLATION
- POWER SUPPLY : ..... +5 VDC @ 30 mA MAX
  -5 VDC @ 30 mA MAX
- CONNECTORS: ..... SMA REMOVABLE (FIELD REPLACEABLE)
- FINISH: ..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)
  -55°C TO +125°C (STORAGE)
- SHOCK: ..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION: ..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: ..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: ..... MIL-STD-202, METHOD 107 COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: J ESCANO	4/22/2026
REDRAWN	
ISSUED	

TITLE: OUTLINE
P1T-9D2G10G-80-R-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27054520	A1

SCALE 3:1 SHEET 1 OF 1

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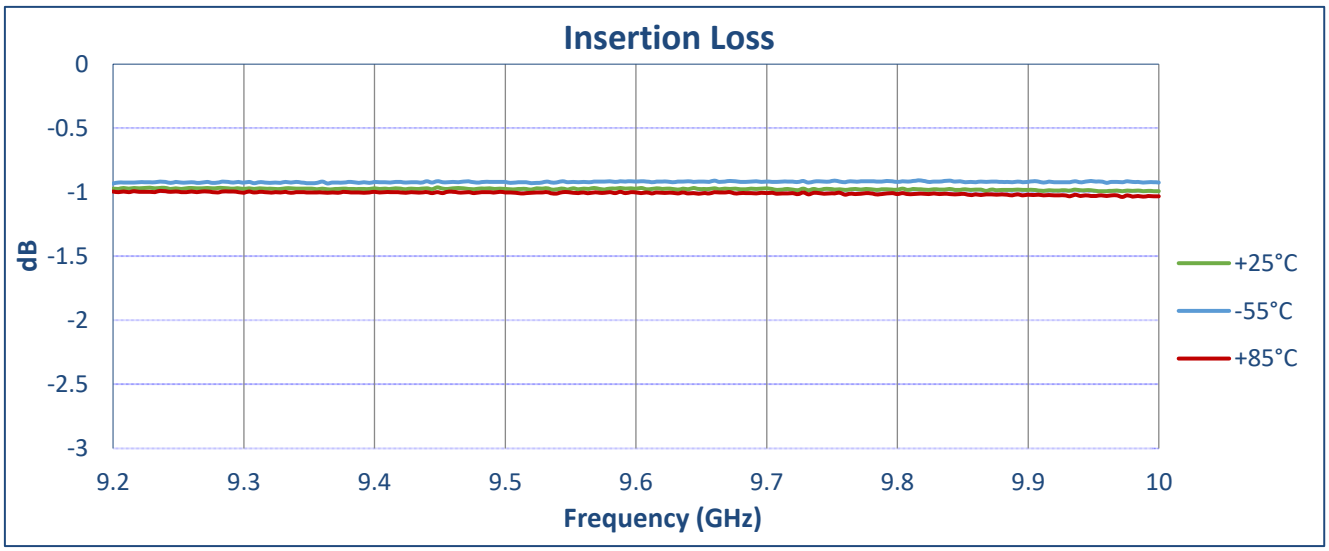
TYPICAL CHARACTERISTICS ON P1T-9D2G10G-80-R-SFF

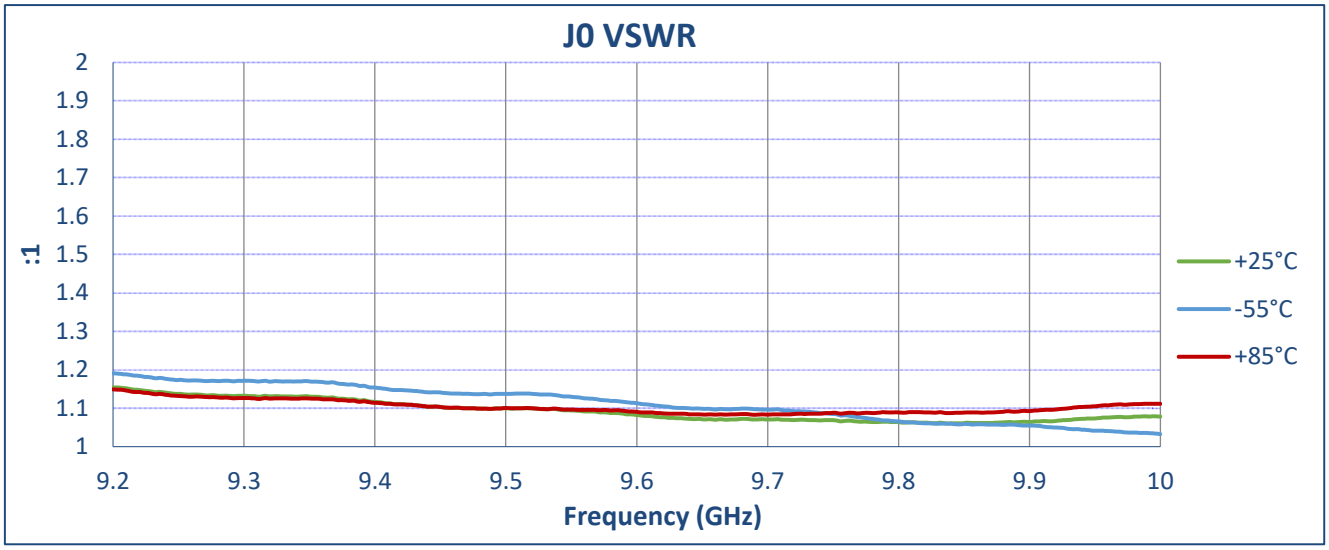
TEST DATA

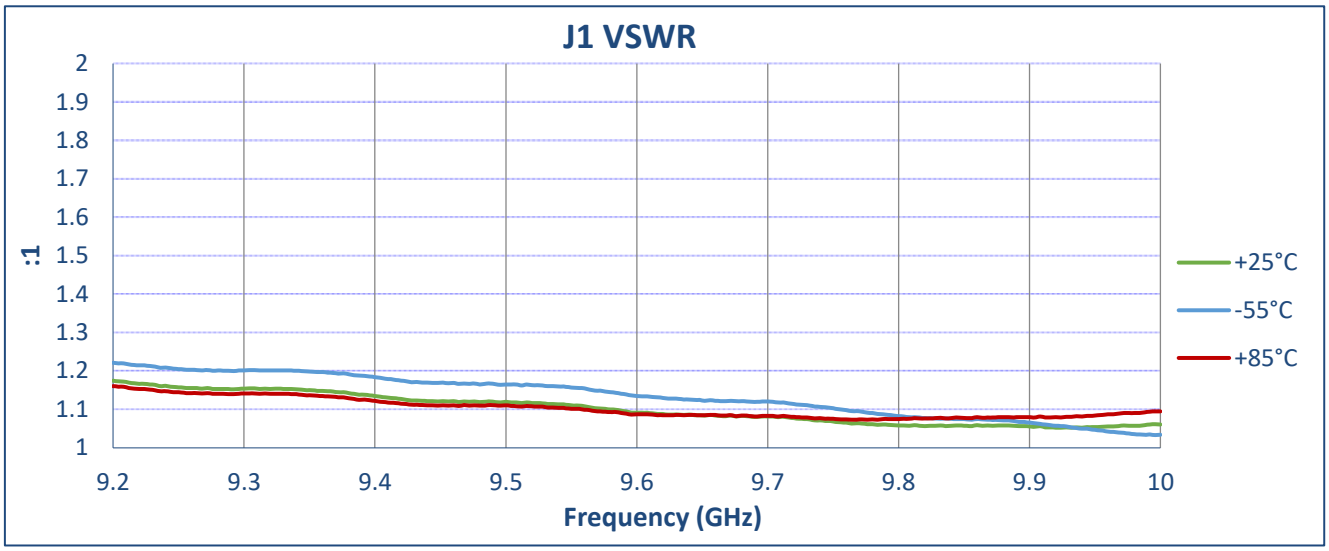
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-55°C	+25°C	+85°C
1	Frequency Range	9.2 to 10 GHz	9.2 to 10 GHz		
2	Isolation	80 dB Min	95.9 dB	96 dB	97 dB
3	Insertion Loss	2.5 dB Max	0.9 dB	1 dB	1 dB
4	VSWR	1.5:1 Max	1.2:1	1.2:1	1.2:1
5	Input Power	+20 dBm Max Operational +27 dBm Max Survival	+27 dBm	+27 dBm	+27 dBm
6	Switching Speed	15 ns Max	On: 8.2 ns Off: 13.8 ns		
7	DC Voltage	+5 V @ 30 mA Max -5 V @ 30 mA Max	+5 V @ 24 mA -5 V @ 5 mA	+5 V @ 24 mA -5 V @ 5 mA	+5 V @ 24 mA -5 V @ 5 mA

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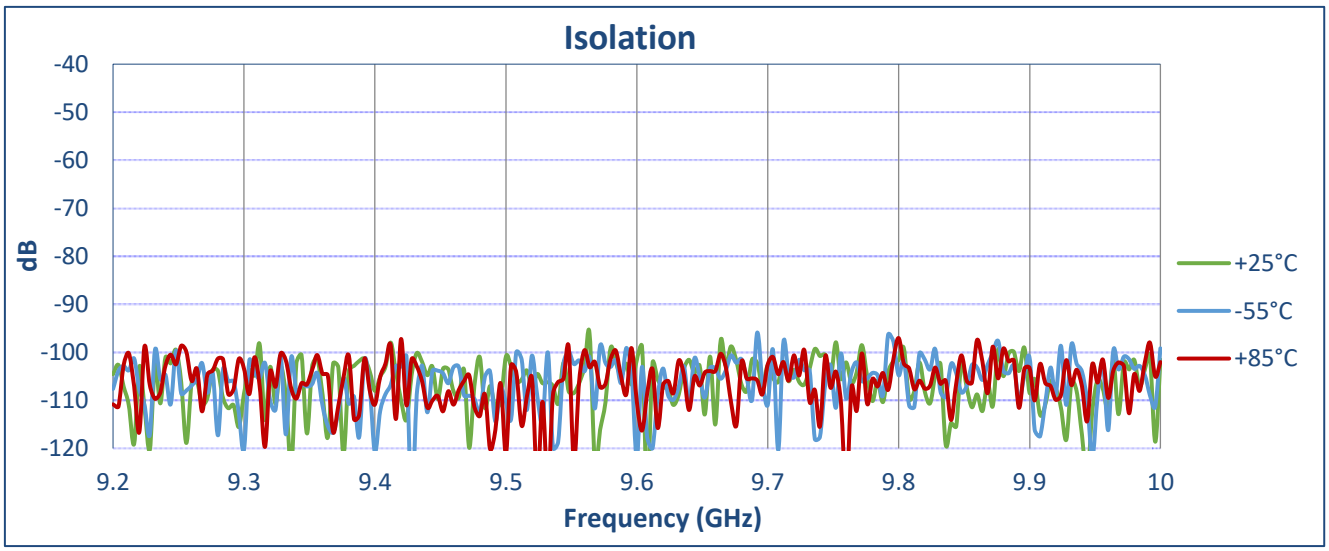


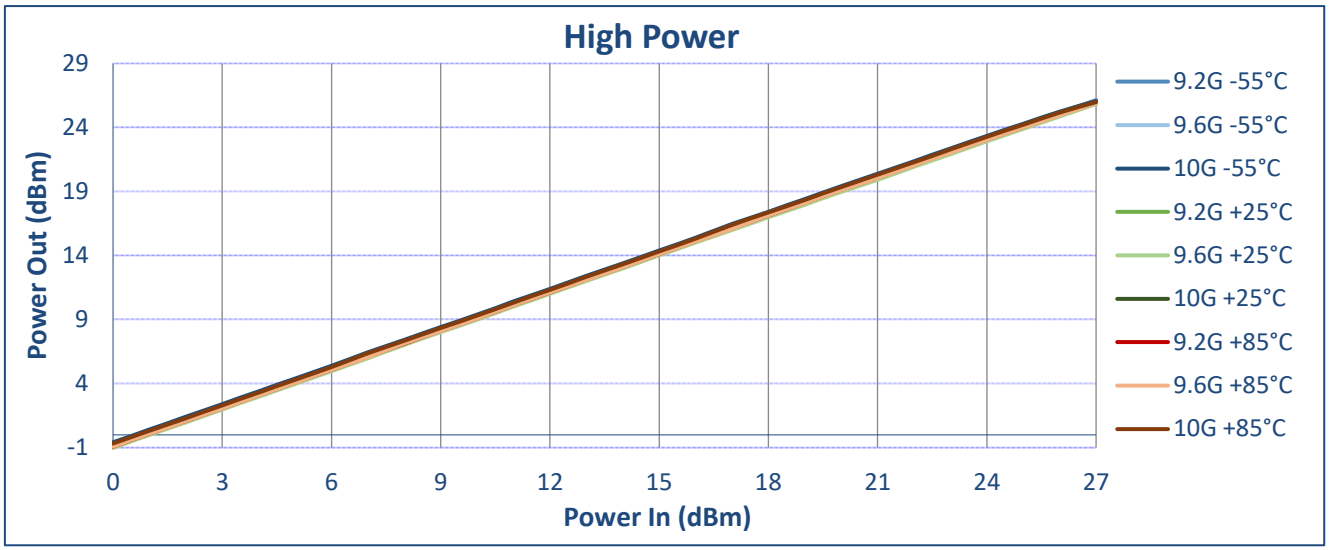




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TYPICAL CHARACTERISTICS
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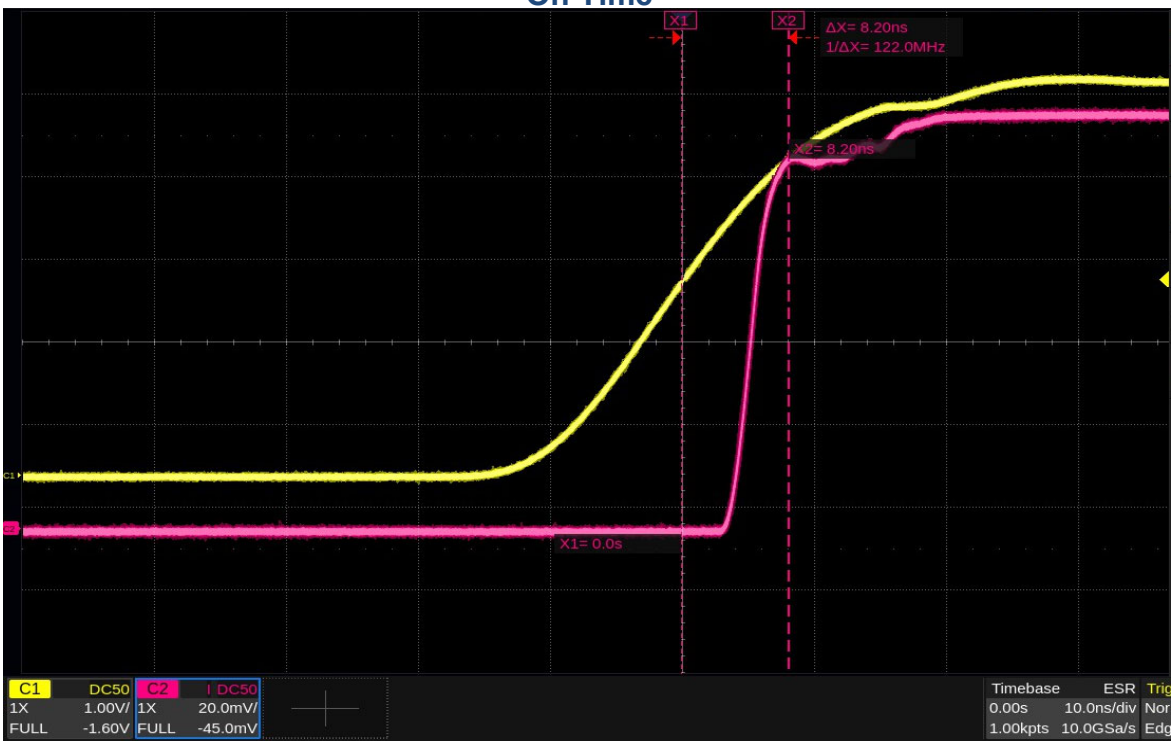


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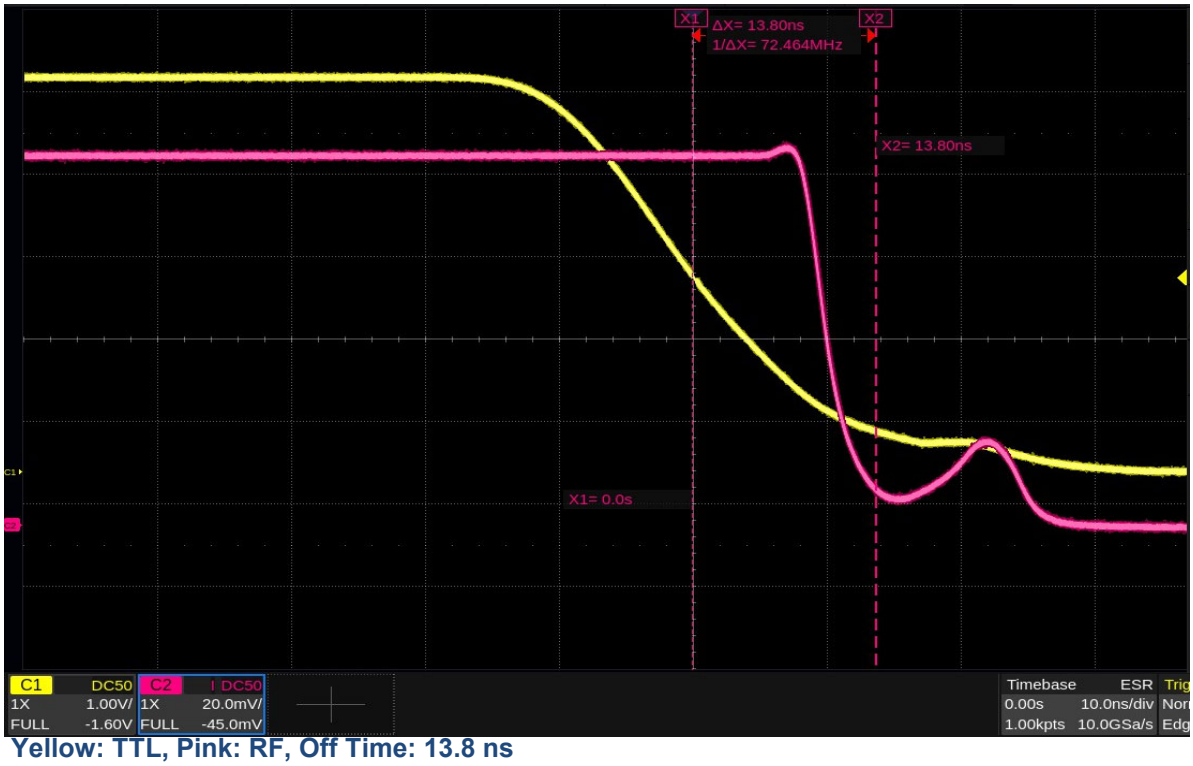
Switching Speed

On Time



Yellow: TTL, Pink: RF, On Time: 8.2 ns

OFF TIME

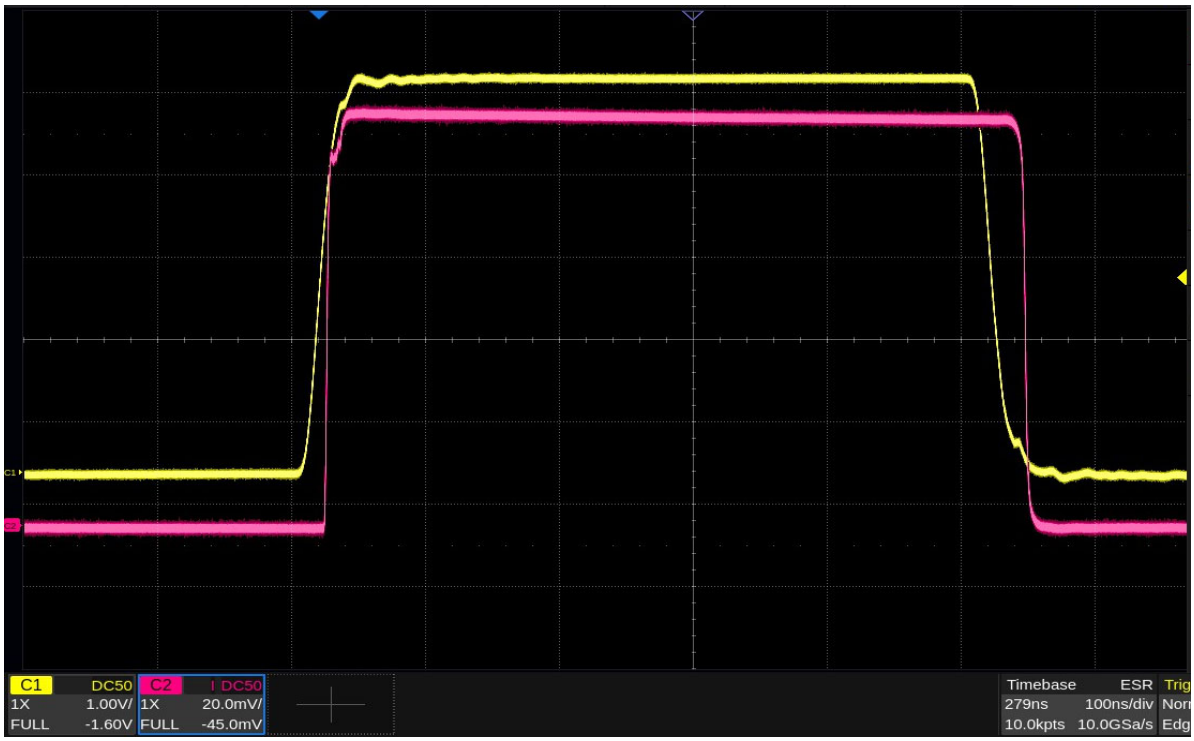


Yellow: TTL, Pink: RF, Off Time: 13.8 ns

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TYPICAL CHARACTERISTICS
ON
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Full Pulse



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