



**TYPICAL CHARACTERISTICS
ON
P2T-4G8G-70-T-SFF-OPT7R7G8R5G**

**PMI MODEL P2T-4G8G-70-T-SFF-OPT7R7G8R5G IS AN ABSORPTIVE,
HIGH SPEED, SINGLE POLE TWO THROW SWITCH CAPABLE OF
SWITCHING WITHIN 1 μ s. THE FREQUENCY RANGE IS 7.7 TO 8.5 GHz. THIS
SWITCH HAS 25 dB MINIMUM ISOLATION**



January 12, 2017

DESIGNED BY: PMI ENGINEERING

TESTED & REPORTED BY: Jerry N



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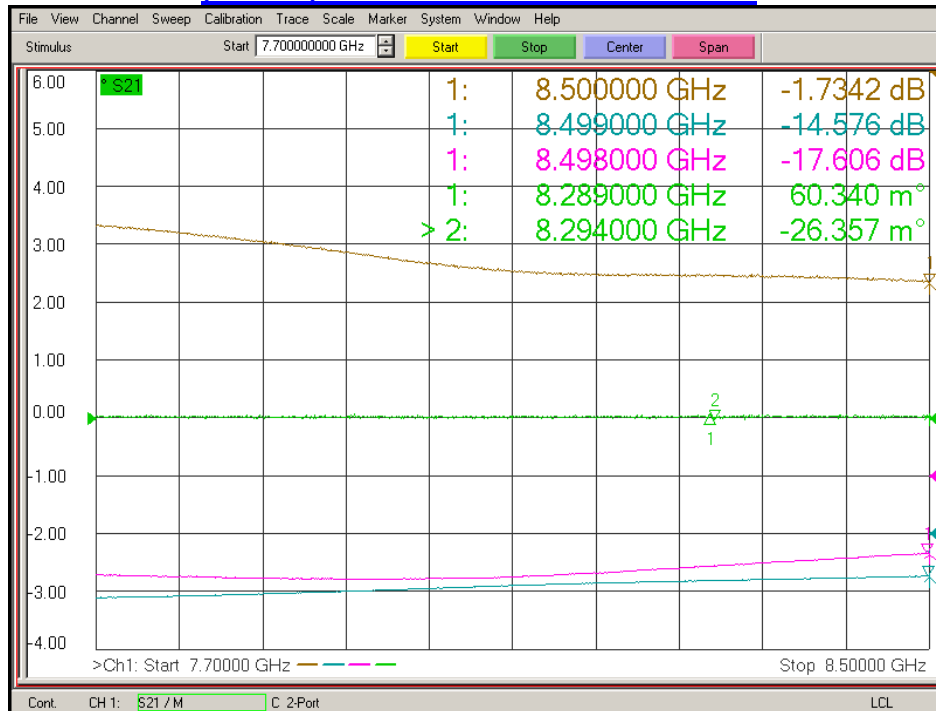
TEST DATA SUMMARY

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	7.7 TO 8.5 GHz	7.7 TO 8.5 GHz	
2	Input Power	+30dBm Max (Survival) +20dBm Max (Operating)	Pass	
3	VSWR	1.8:1 Typ	1.54 :1 (See Plot)	
4	Insertion Loss	1.9 dB Max	1.46 dB (See Plot)	
5	Isolation	25 dB Min	88.99 dB (See Plot)	
6	Switching Speed	1 μ s Max	27 ns	
7	Amplitude Imbalance	0.5 dB Between Port Over Frequency	0.1 dB	
8	Phase Imbalance	$\pm 3^\circ$ Between Port Over Frequency	1 °	
9	DC Supply	+5VDC @ 100 mA Typ -15VDC @ 100 mA Typ	22 mA 55 mA	
10	Power Handling	0 dBm Max	0 dBm	
11	Control Signal	LOGIC TABLE CTL FUNCTION 0 J1-J2 "LOW LOSS" 1 J1-J3 "LOW LOSS"	Pass	



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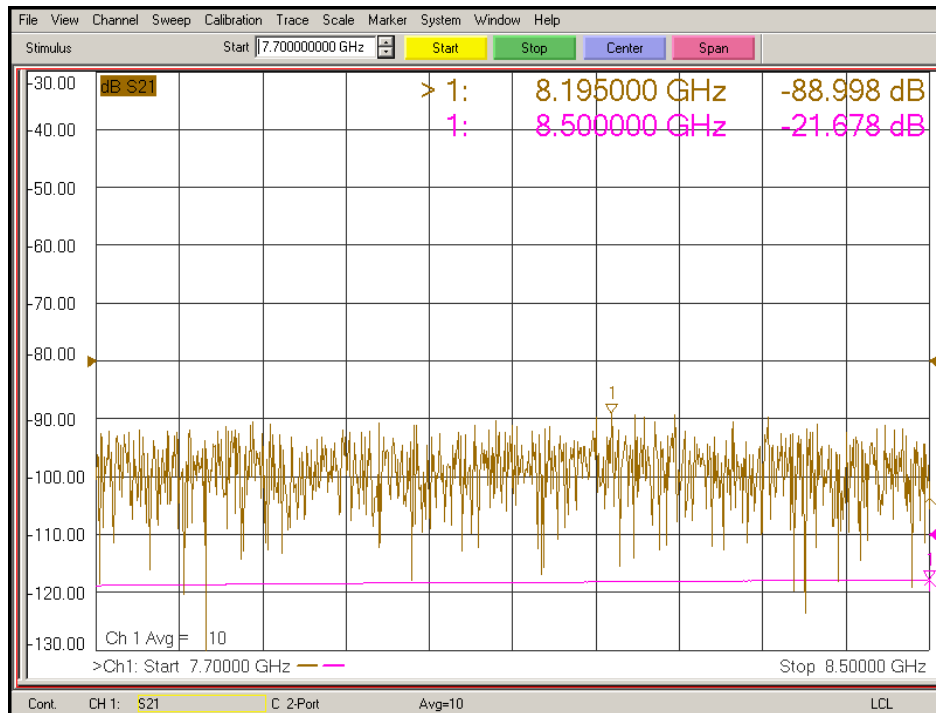
(J1 – J2) Insertion Loss and Return Loss



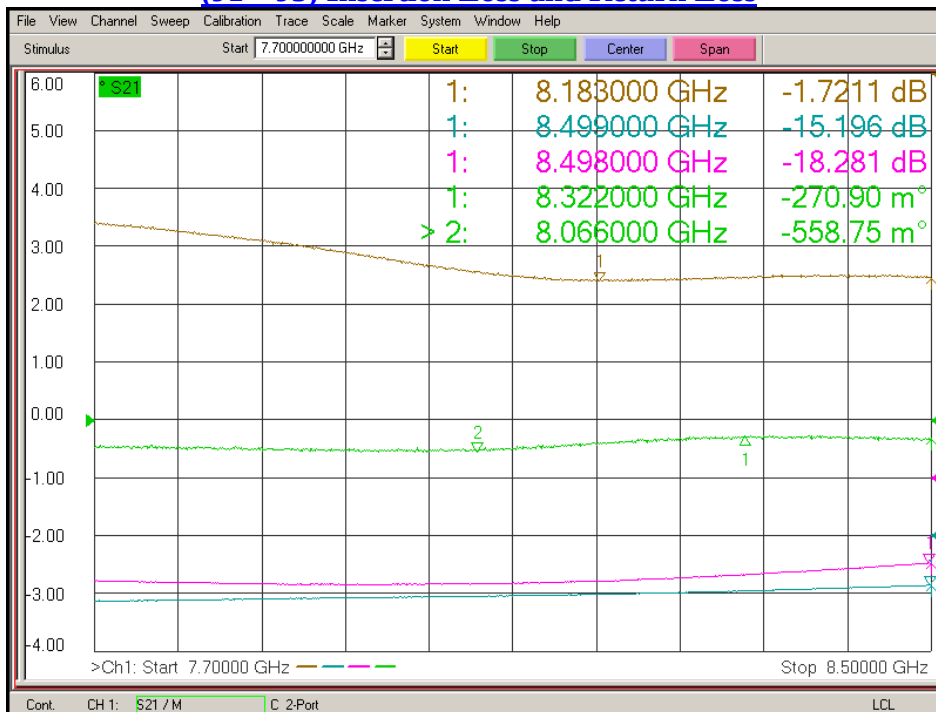
(J1 – J2) Isolation and Termination Return Loss



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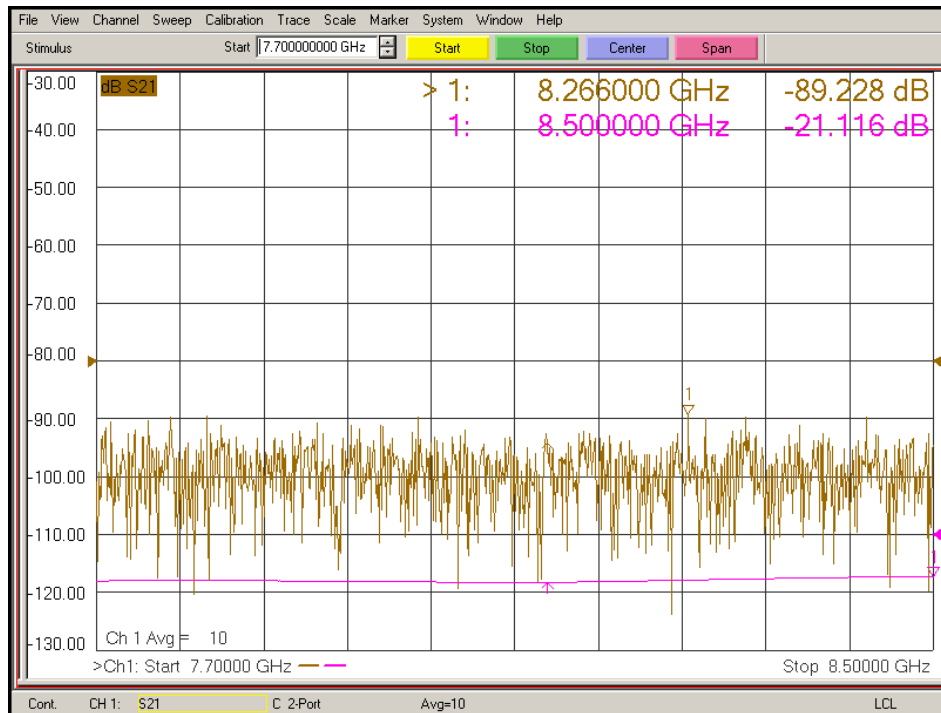
(J1 – J3) Insertion Loss and Return Loss



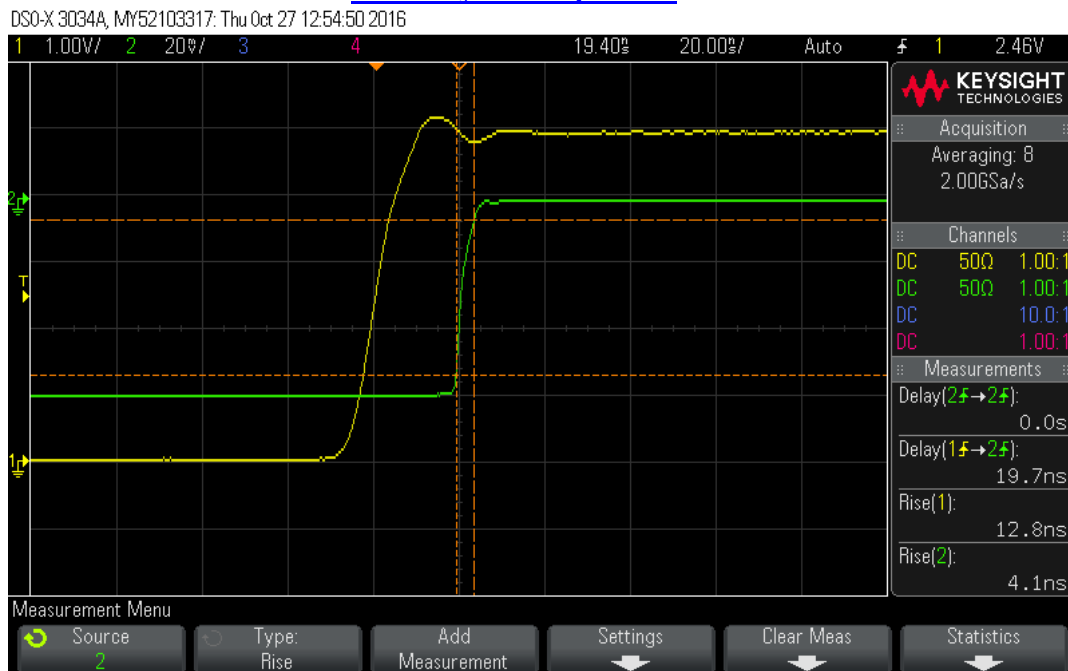
(J1 – J3) Isolation and Termination Return Loss



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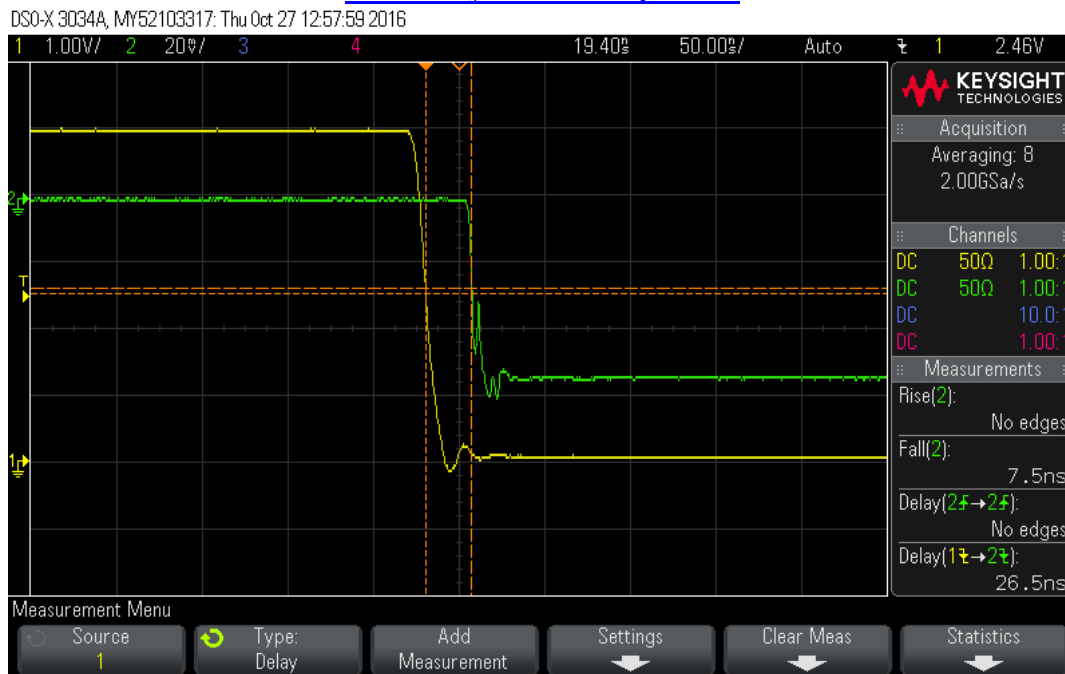
Switching Speed **ON Delay – 20 ns per Div.**



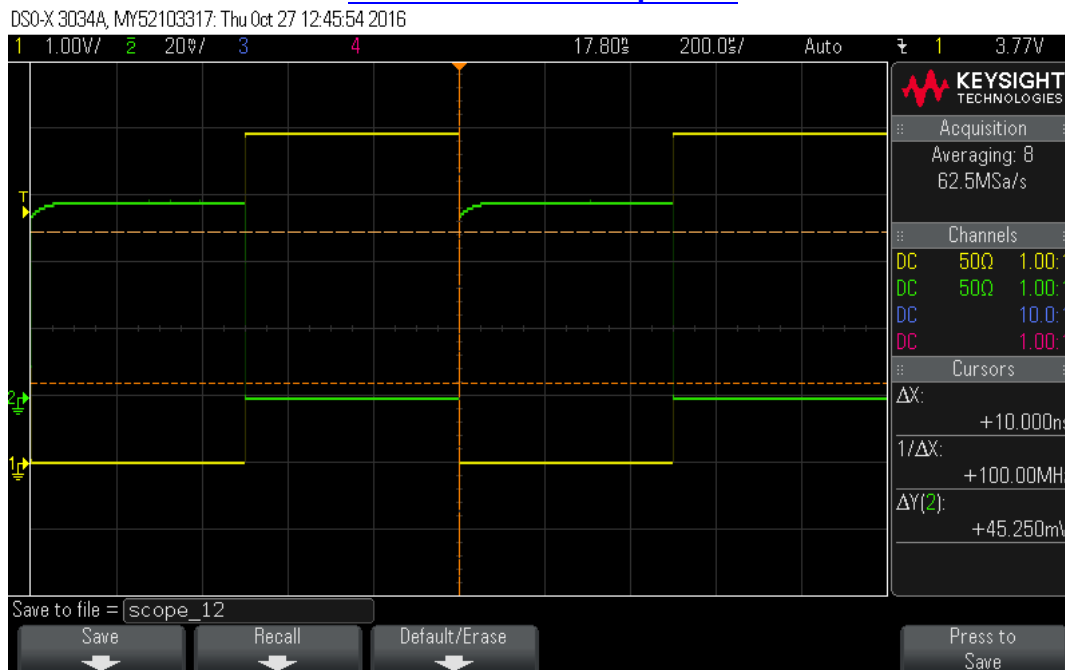


TYPICAL CHARACTERISTICS ON P2T-4G8G-70-T-SFF-OPT7R7G8R5G

OFF Delay and – 50 ns per Div.



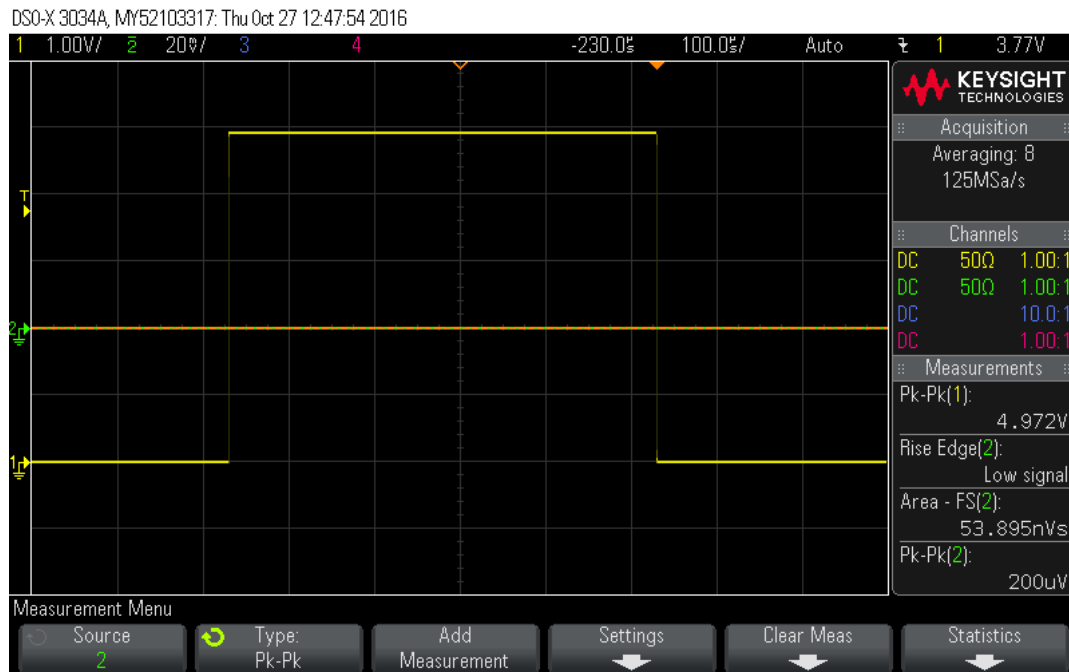
FULL PULSE– 200 ns per Div.



TRANSIENT– 100 ns per Div.



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GREEN TRACE: RF
YELLOW TRACE: TTL