



**TYPICAL CHARACTERISTICS
ON
P3T-500M40G-60-R-55-292FF**

PMI MODEL P3T-500M40G-60-R-55-292FF IS A REFLECTIVE, SINGLE POLE THREE THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.5 GHz TO 40.0 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION..



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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:	0.5 – 40 GHz	0.5 – 40 GHz	
2	Insertion Loss:	5.5 dB Typ.	3.64 dB	
3	Isolation:	55 dB Min.	57.30 dB	
4	VSWR:	2.5:1 Typ.	2.27 :1	
5	Switching Speed:	15 ns Typ. RISE/FALL 50 ns Typ. DELAY ON/OFF	43 ns (see Plot)	
6	Input Power:	+20 dBm CW Typ.	Pass	
7	Survival Power:	1W PEAK 1 us.	Pass	
8	DC Supply:	+5VDC @ 200 mA Typ. -5VDC @ 100 mA Typ.	169 mA 22 mA	

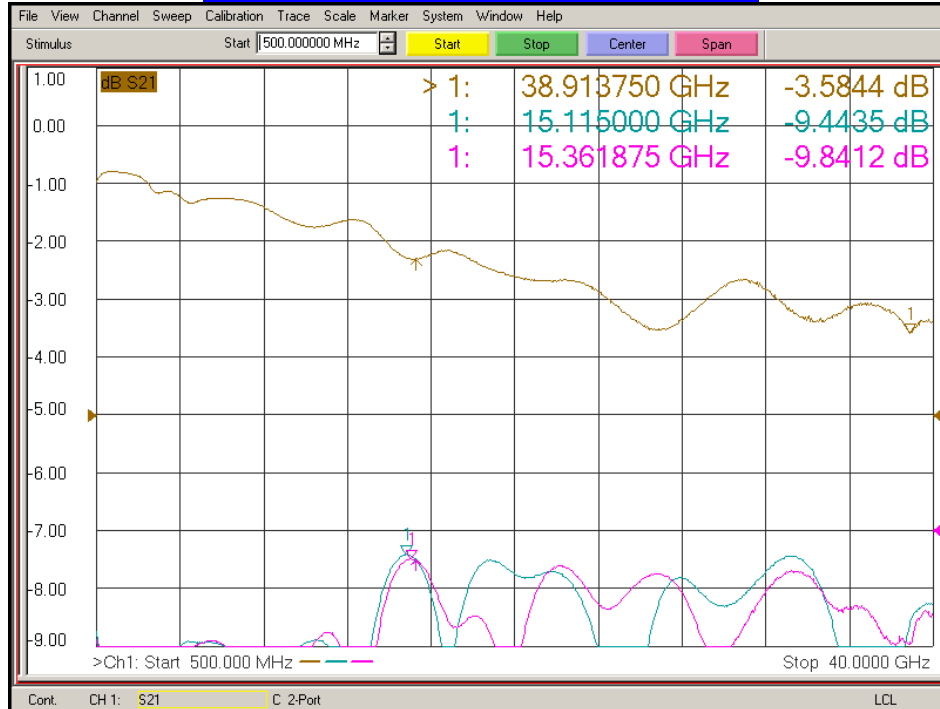
LOGIC TABLE

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



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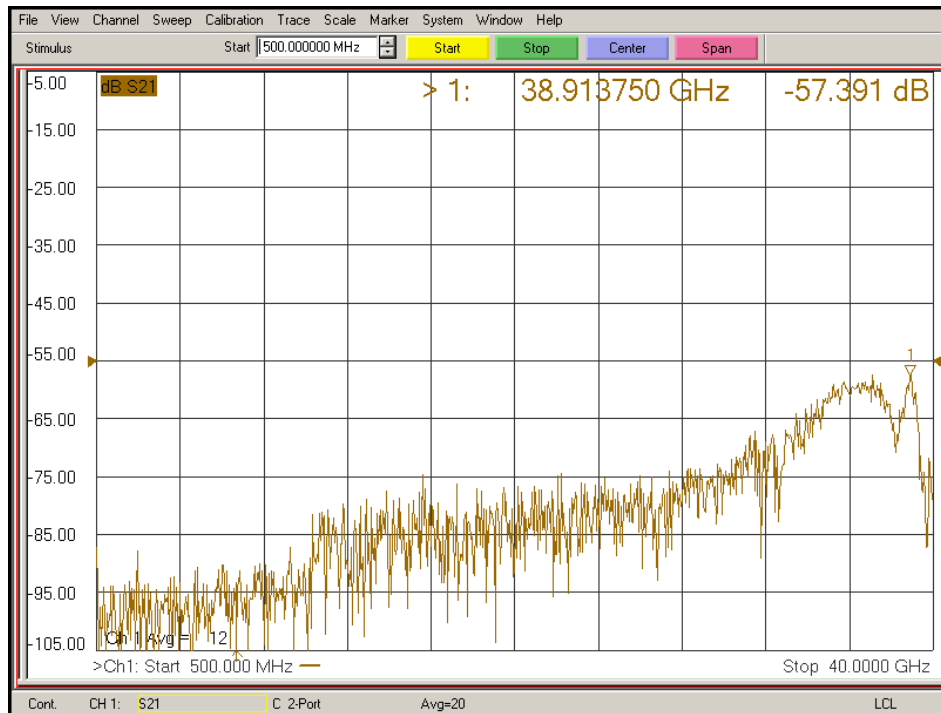
(J1 – J2) Insertion Loss and Return Loss



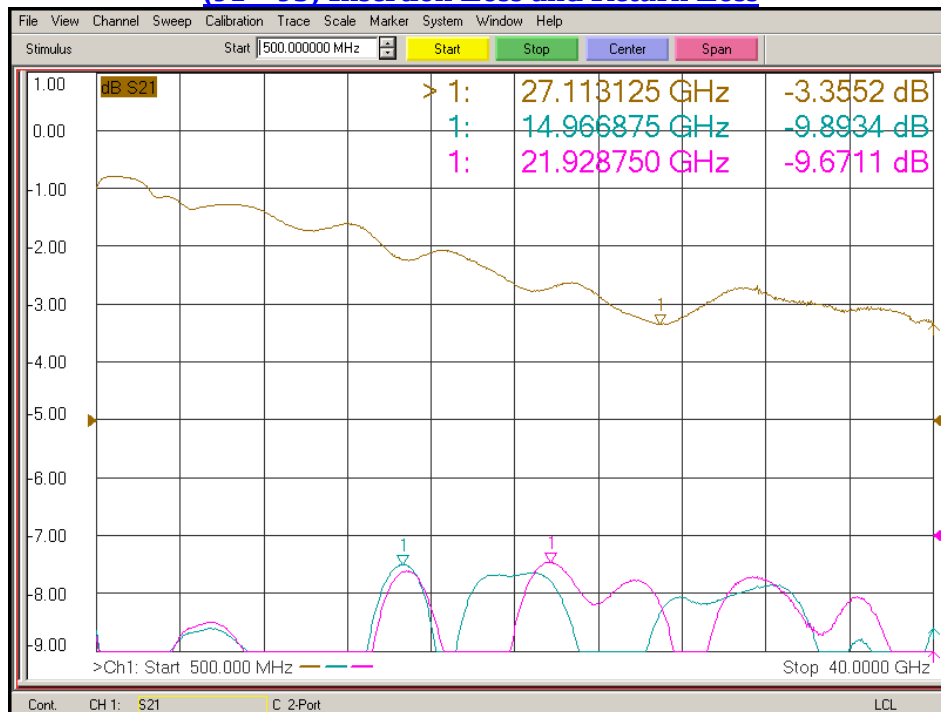
(J1-J2) Isolation



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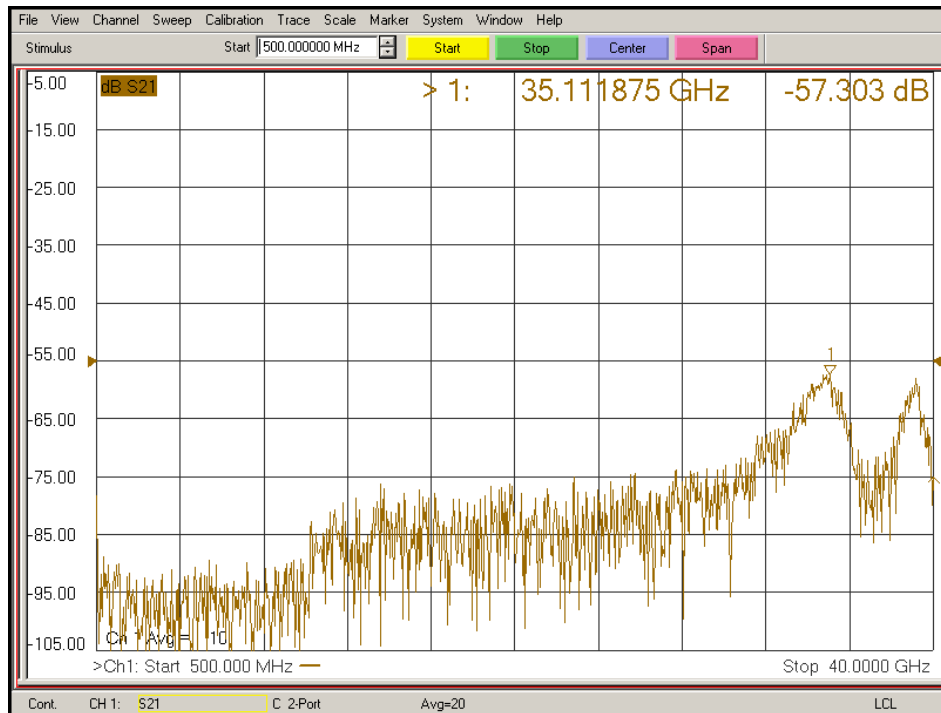
(J1 – J3) Insertion Loss and Return Loss



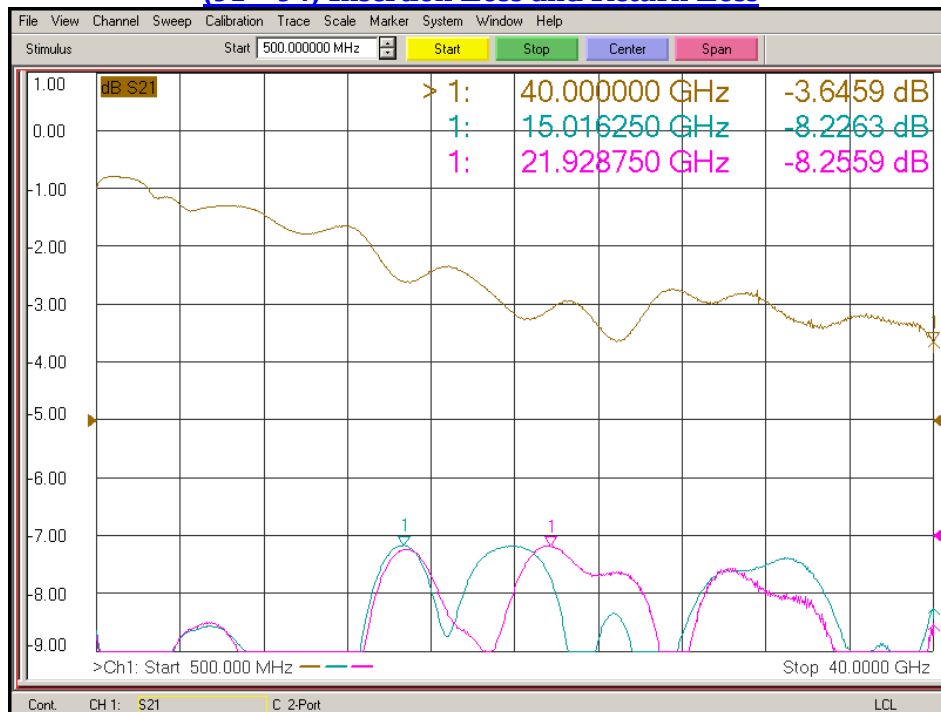
(J1-J3) Isolation



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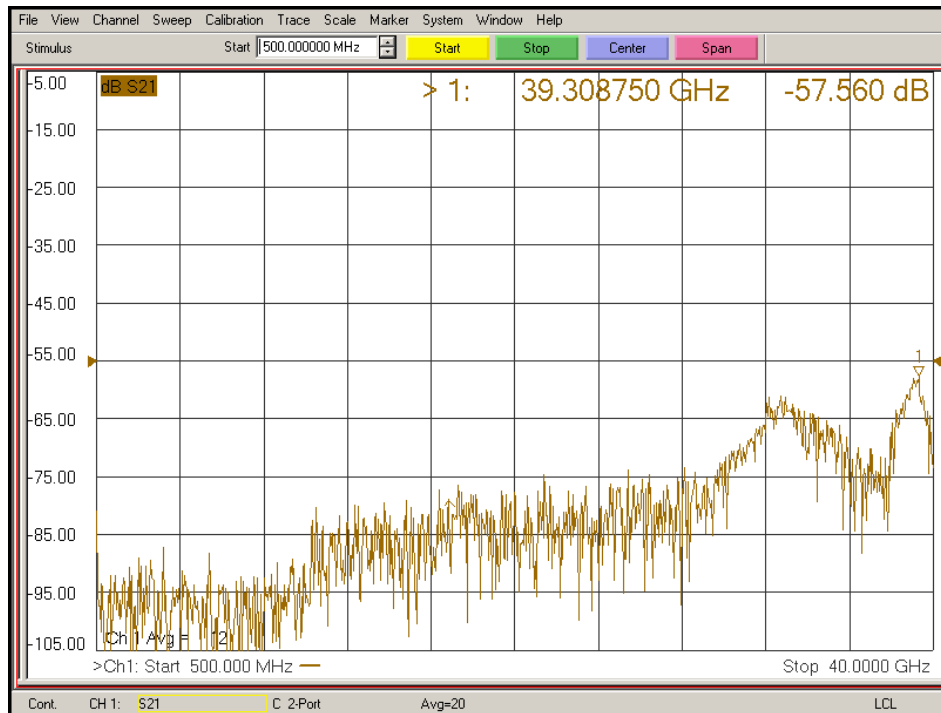
(J1 – J4) Insertion Loss and Return Loss



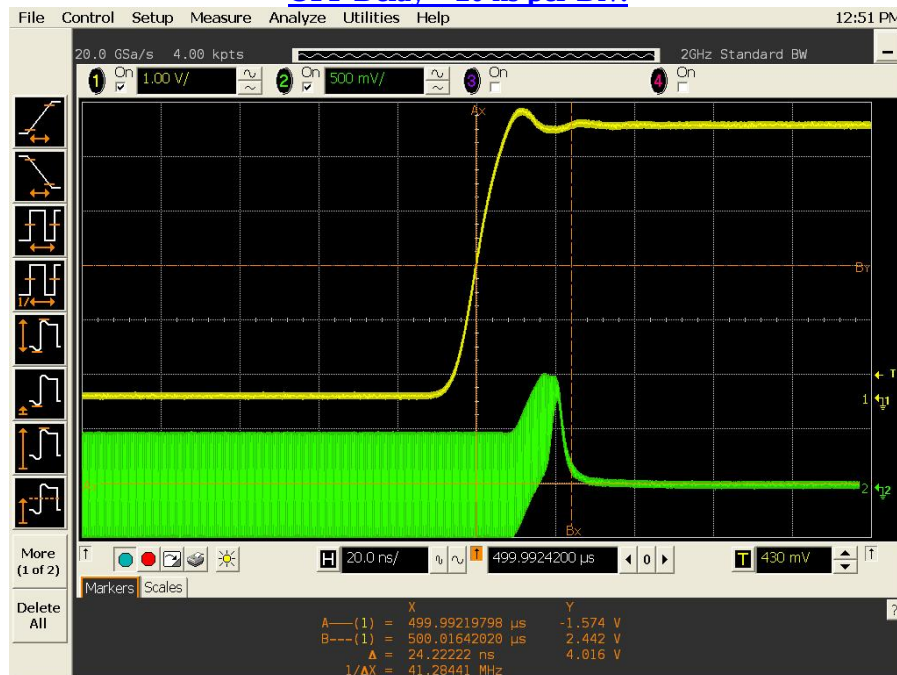
(J1-J4) Isolation



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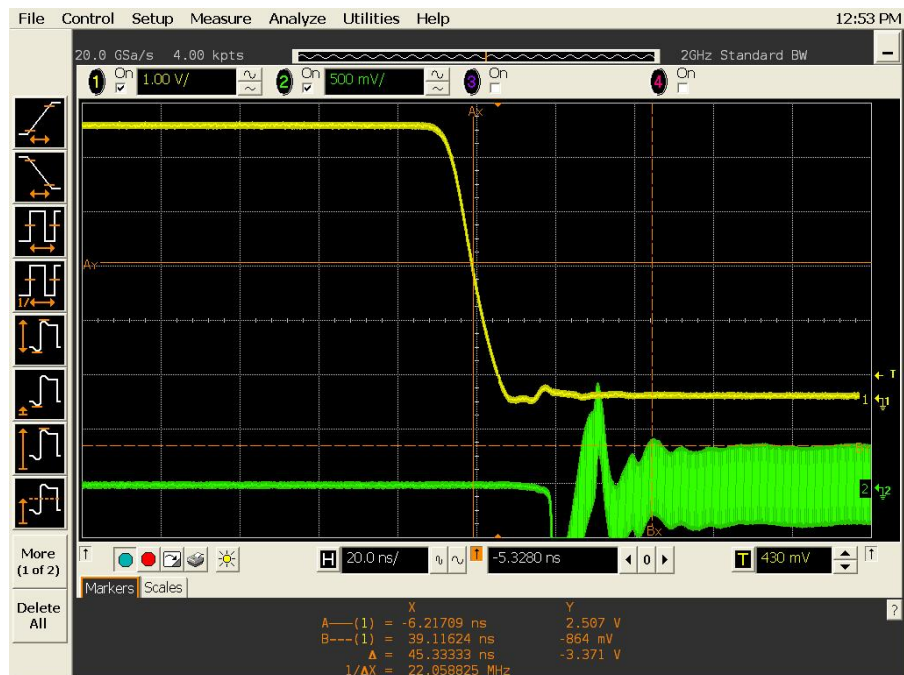
**Switching Speed TYP.
OFF Delay – 20 ns per Div.**



ON Delay and – 20 ns per Div.



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GREEN TRACE: RF
YELLOW TRACE: TTL