



**TYPICAL CHARACTERISTICS  
ON  
P2T-5G5D15G-30-R-528-SFF-20W**

**THE MODEL P2T-5G5D15G-30-R-528-SFF-20W IS A  
SINGLE POLE, TWO THROW, REFLECTIVE SWITCH.  
THE FREQUENCY RANGE IS 5000 TO 5150 MHz  
AND HAS 30dB OF ISOLATION.**



**January 8, 2018**

**Designed By:  
PMI Engineering**

**Tested & Reported By:  
Sebastian Palacio**





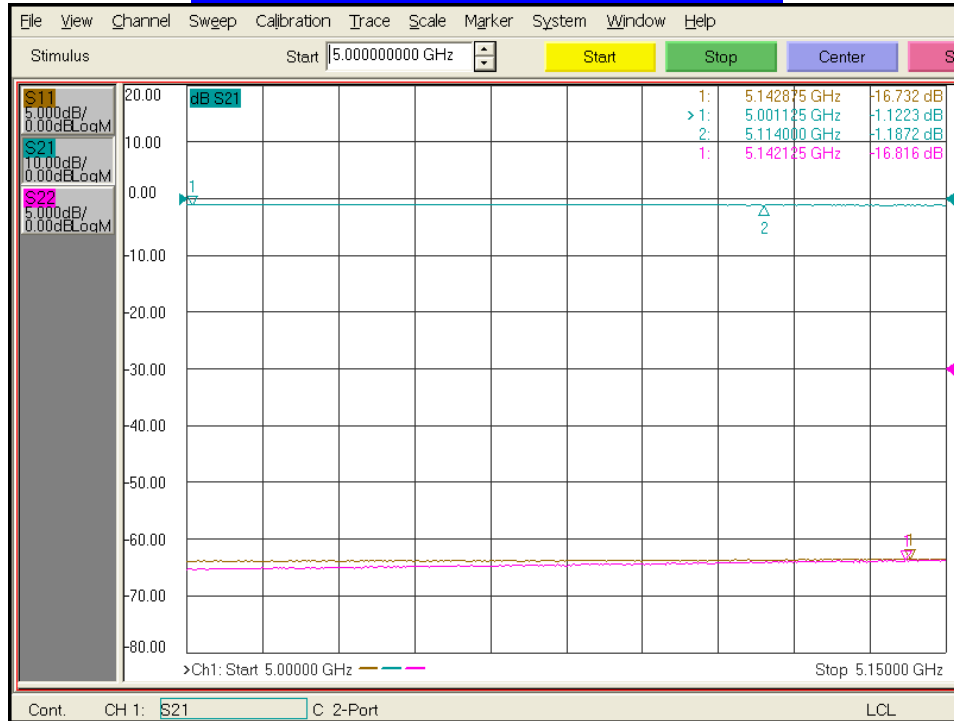
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	5000 to 5150 MHz	<b>5000 to 5150 MHz See Plots</b>	
2	Insertion Loss:	1.5dB Goal, 2.0dB Max	<b>1.20dB See Plots</b>	
3	Isolation:	30dB Min	<b>35.2dB See Plots</b>	
4	Switching Speed:	200ns Typ (Customer Spec of 2us Max)	<b>&lt;40ns See Plots</b>	
5	Operating Input Power:	+43dBm (20W) CW Max	<b>Pass</b>	
6	VSWR (In/Out):	1.2:1 Typ, 1.5:1 Max	<b>1.34:1 See Plots</b>	
7	Video Transients:	Not Specified	<b>80mV Peak to Peak, Typ. See Plots</b>	
8	DC Supply:	+5VDC -28VDC	<b>3mA 3mA</b>	

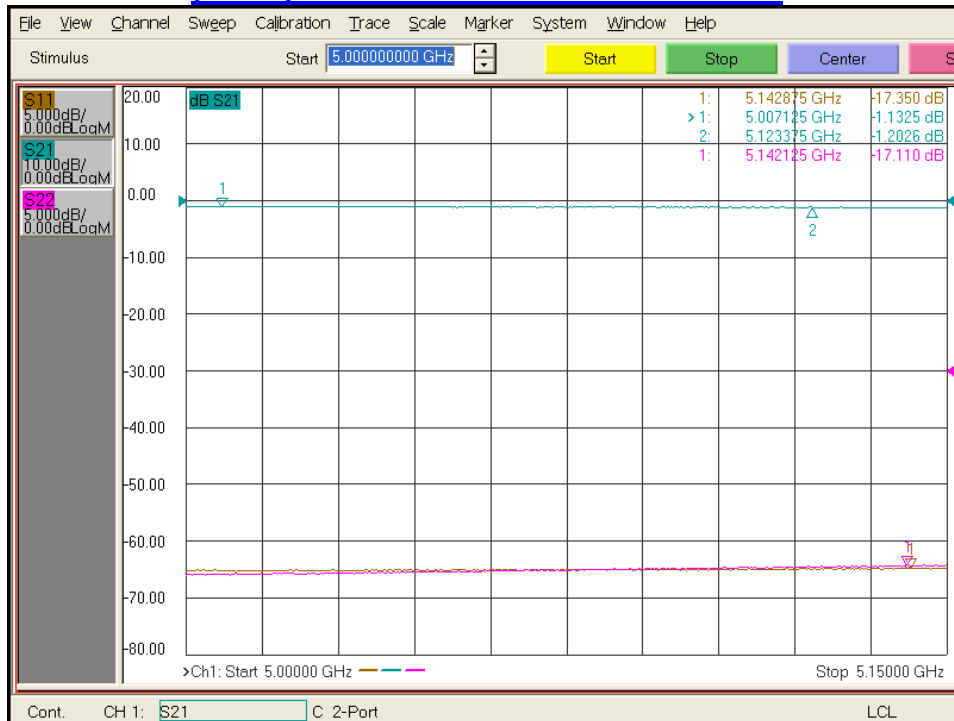


## TYPICAL CHARACTERISTICS ON P2T-5G5D15G-30-R-528-SFF-20W

### (J1-J2) Insertion Loss and Return Loss



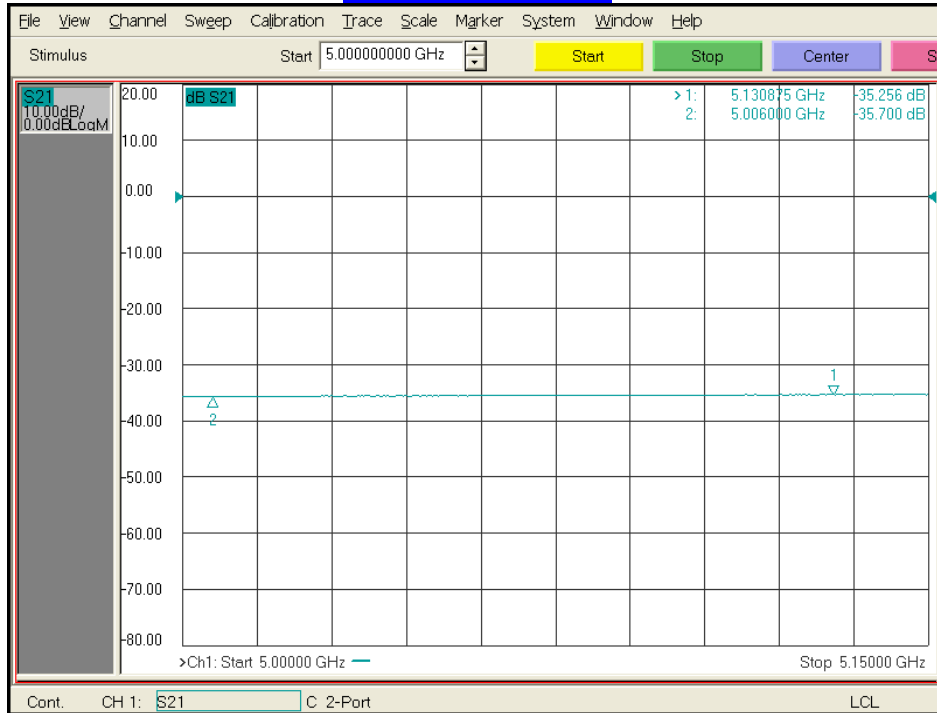
### (J1-J3) Insertion Loss and Return Loss



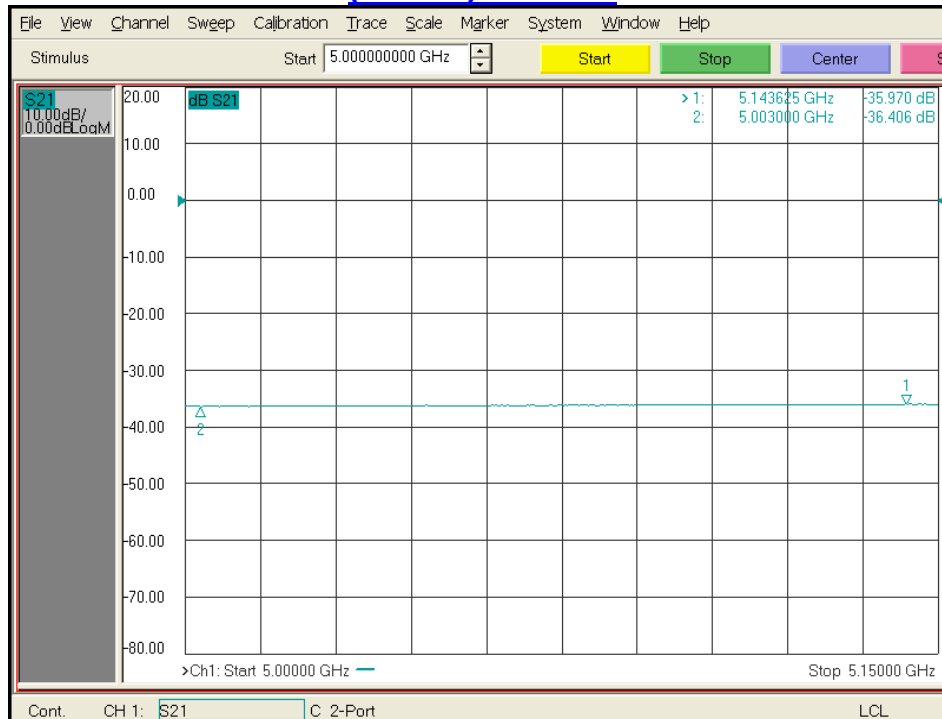


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## (J1 – J2) Isolation



## (J1 – J3) Isolation

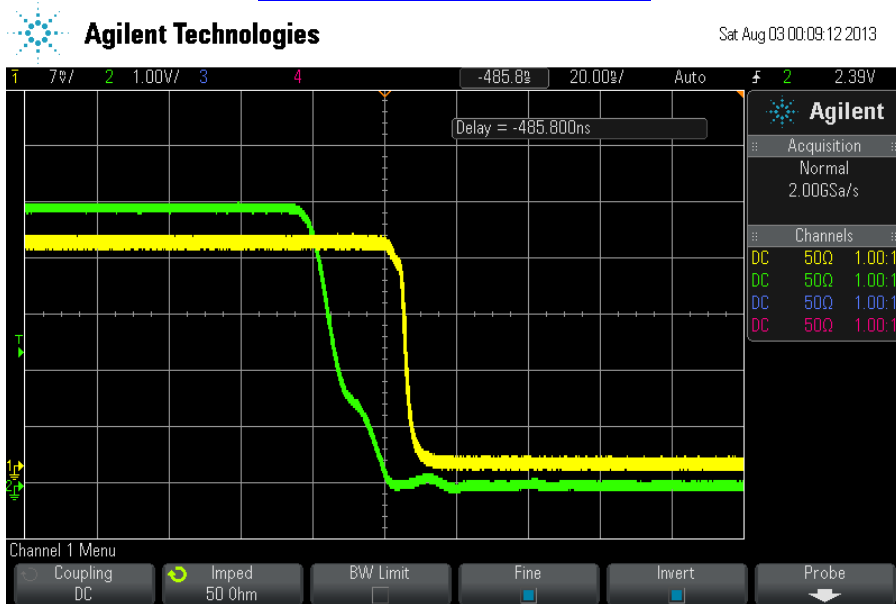




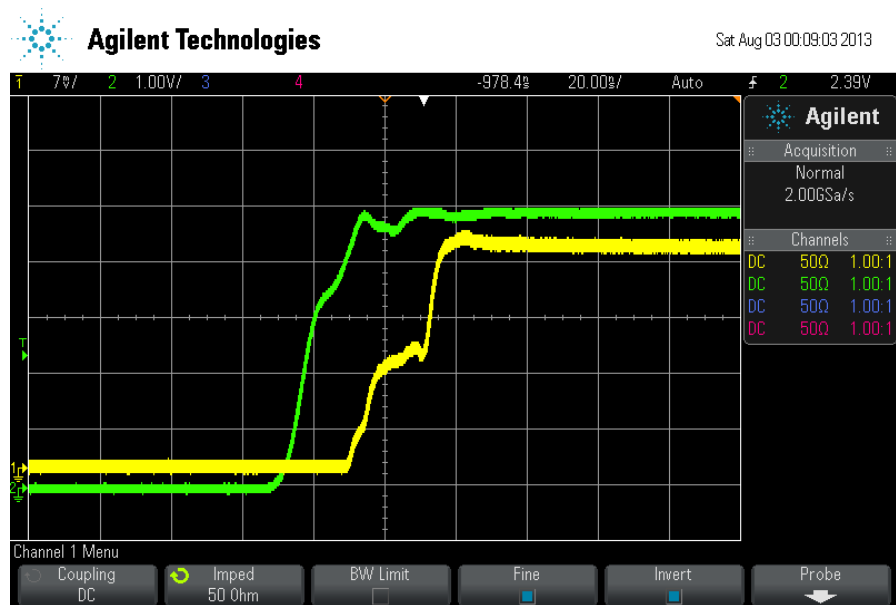
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## Switching Speed

### OFF Delay – 20ns per Div.



### ON Delay – 20ns per Div.

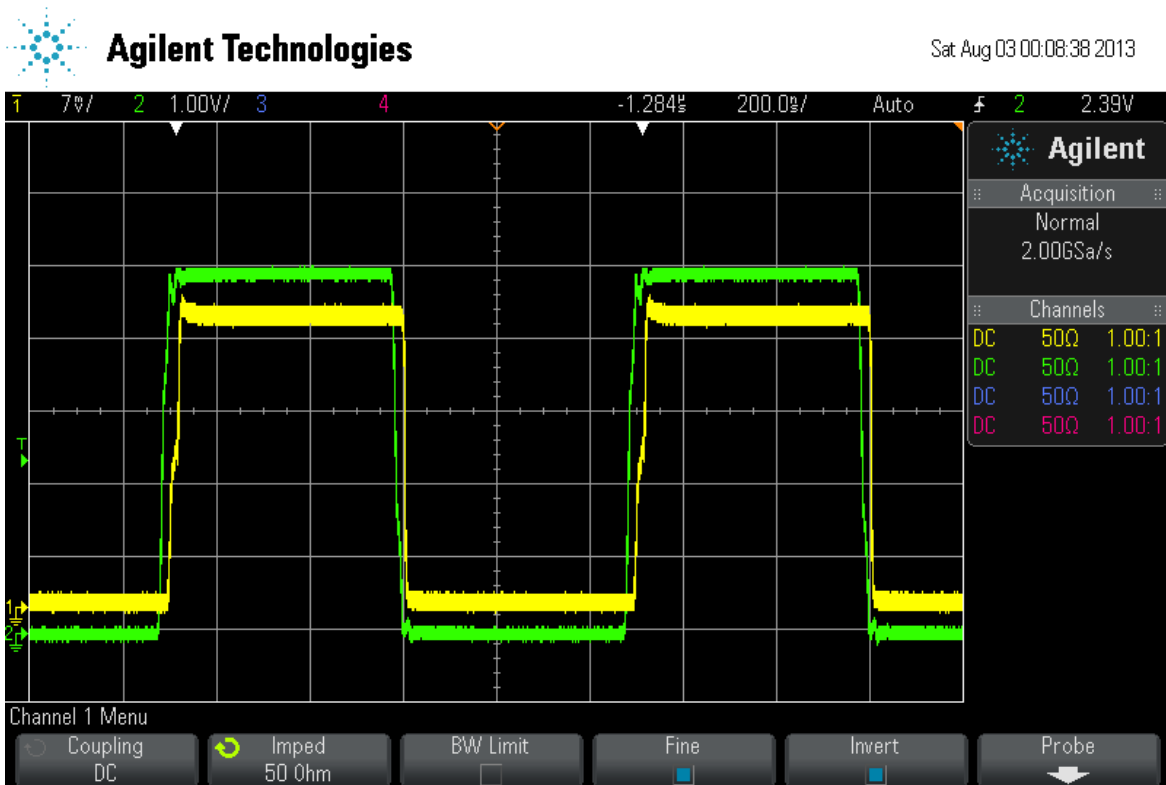


Green Trace: TTL Signal  
Yellow Trace: RF Signal



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Full Pulse – 200ns per Div.



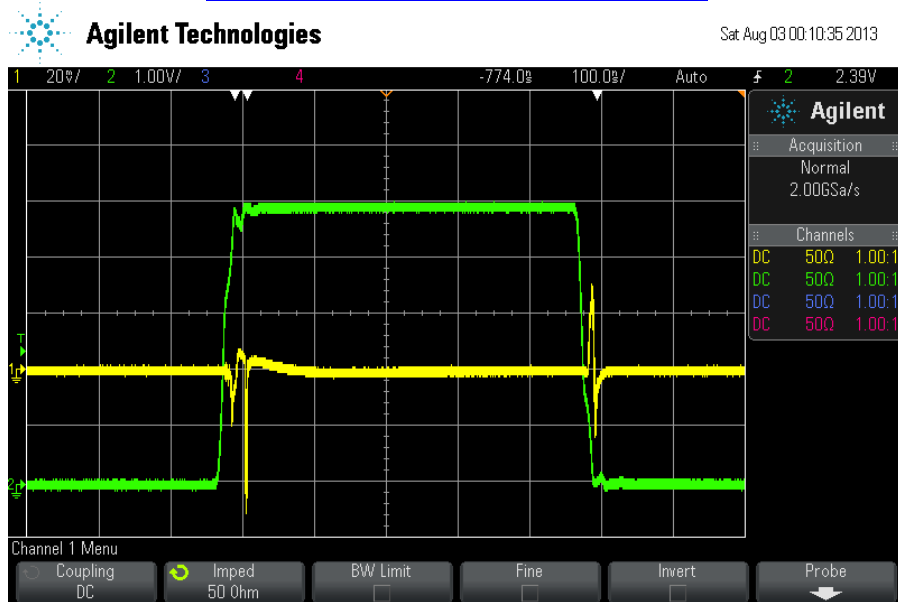
Green Trace: TTL Signal  
Yellow Trace: RF Signal



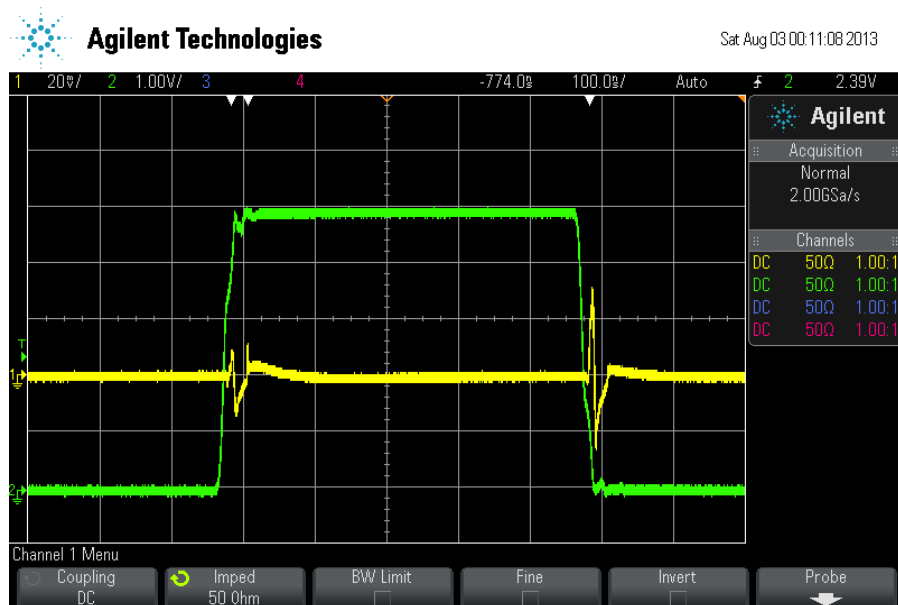
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**Video Transients**

**Input Transients – 100ns per Div.**



**Output Transients – 100ns per Div.**



Green Trace: TTL Signal  
Yellow Trace: RF Signal