



**SUMMARY TEST DATA  
ON  
P2T-8G18G-40-R-TFF-120W**

PL21776/1744

Customer: \_\_\_\_\_ Tested By: H. Gonzales  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: P2T-8G18G-40-R-TFF-120W Date: 11/3/17  
 Serial No: PL21776/1744 Drawing No: 27629671 Rev: 1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	8.0 to 18.0 GHz	8.0 to 18.0 GHz	PMI QA 2
2	Power:	120W (CW)	<b>70W</b> Waiver Attached See Graph	
3	Insertion Loss:	2.2dB Max. at band edges for 20% bandwidth and typically 1.75 dB goal. For mid-band of 80% of the bandwidth 2.0dB Max., and typically 1.5 dB goal	2.01dB See Plot	
4	Isolation:	40dB	40.20dB See Plot	
5	Switching Speed:	200 ns Max. (50% TTL to 90% RF and 50% TTL to 10% RF)	190 ns See Plots	
6	VSWR in/out:	2:1 Max.	Input 1.83:1 Output 1.97:1 See Plots	
7	Load VSWR:	Better than 1.5:1	1.5:1 Typical	
8	Power Supply:	+5V @ 300mA -70V @ 60mA	216mA 1mA	PMI QA 2

CONTROL: SINGLE TTL (TTL "0" J1-J3 "LOW LOSS")

J4 CONNECTIONS

PIN	CONNECT TO
1	U1 -70V
2	GROUND
3	U1 CONTROL
4	U1 +5V
5	U1 NC

PIN	CONNECT TO
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

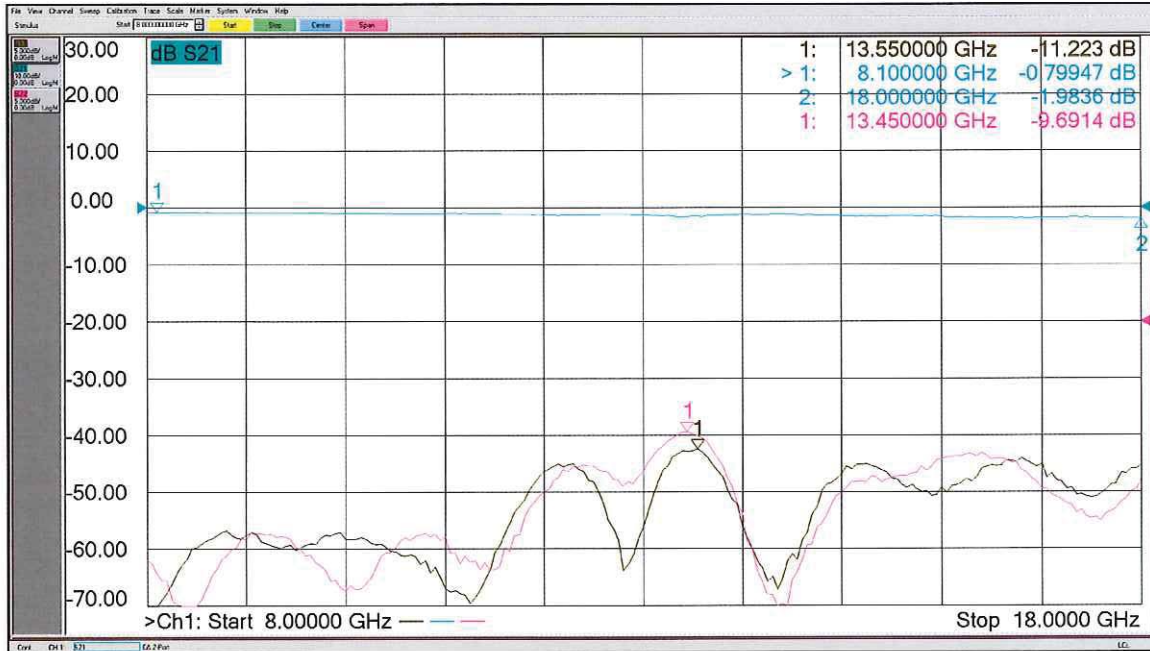
QA/QC Approval:  PMI QA 2 Date: 11/6/17



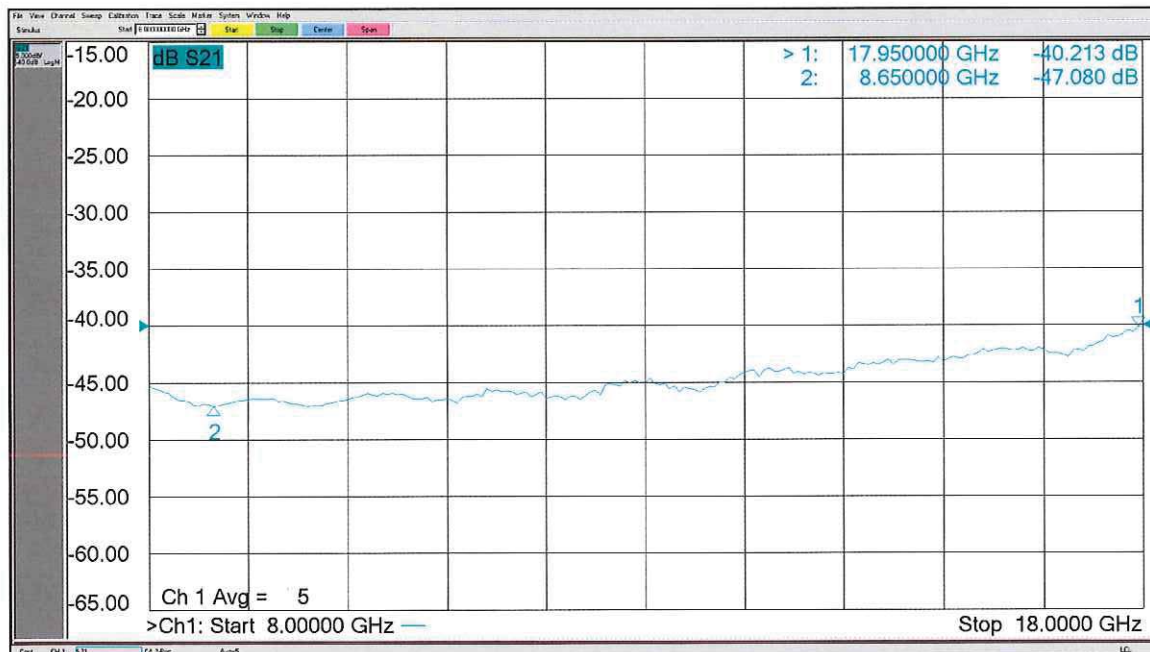
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## J1-J2 Insertion Loss and Return Loss



## J1-J2 Isolation

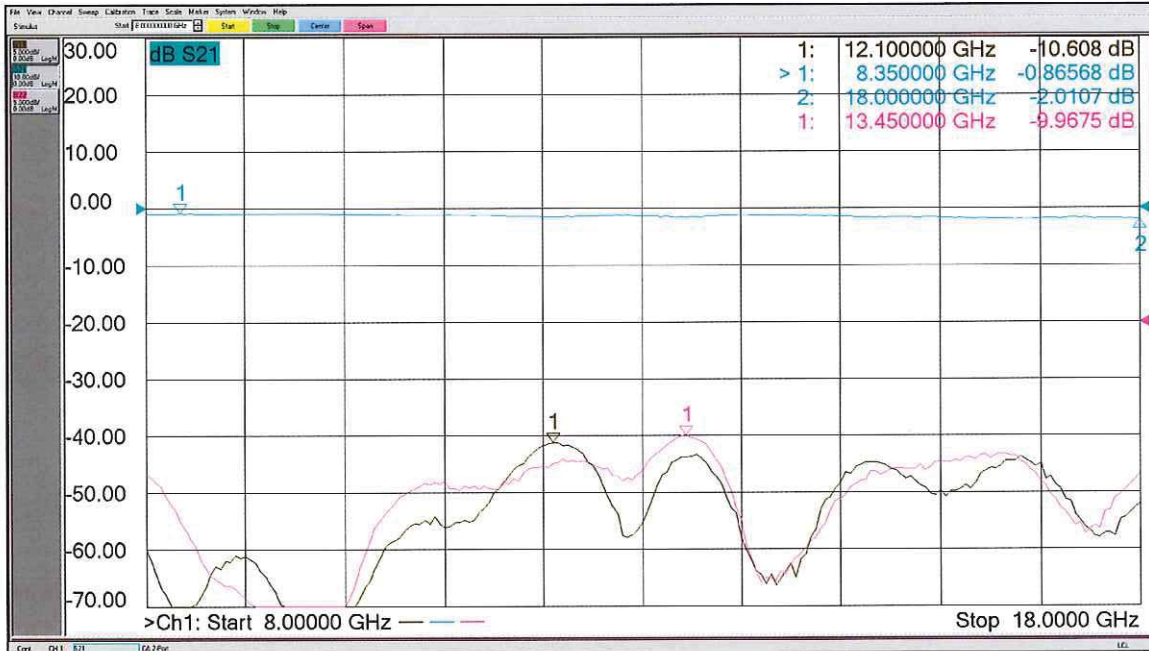




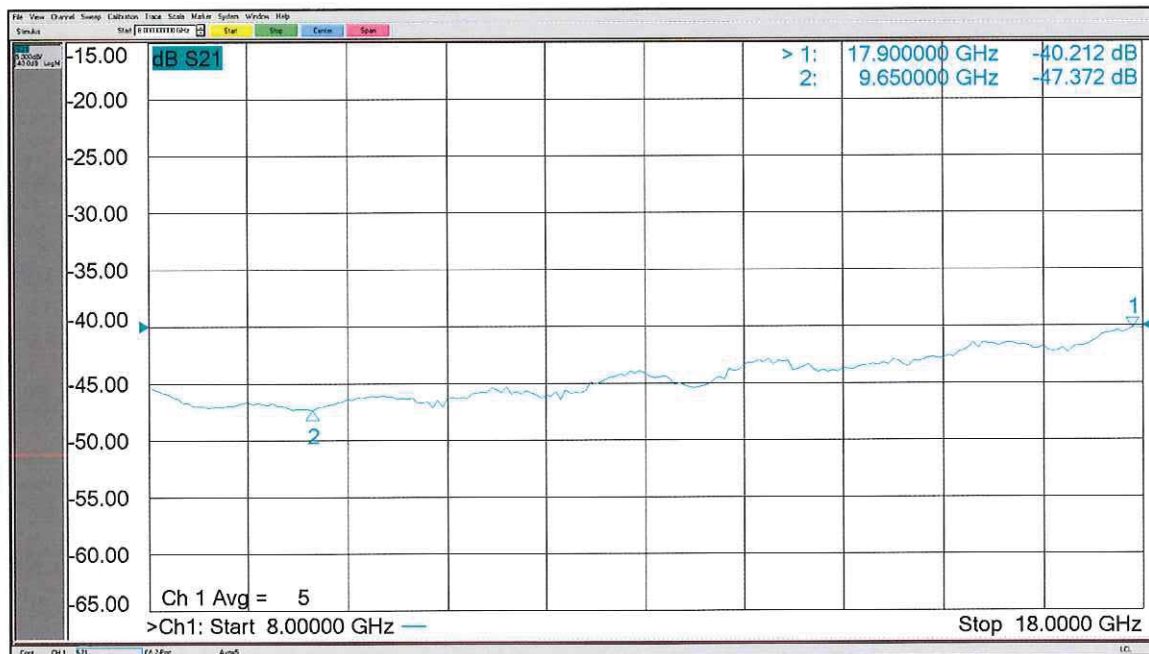
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**J1-J3 Insertion Loss and Return Loss**



**J1-J3 Isolation**



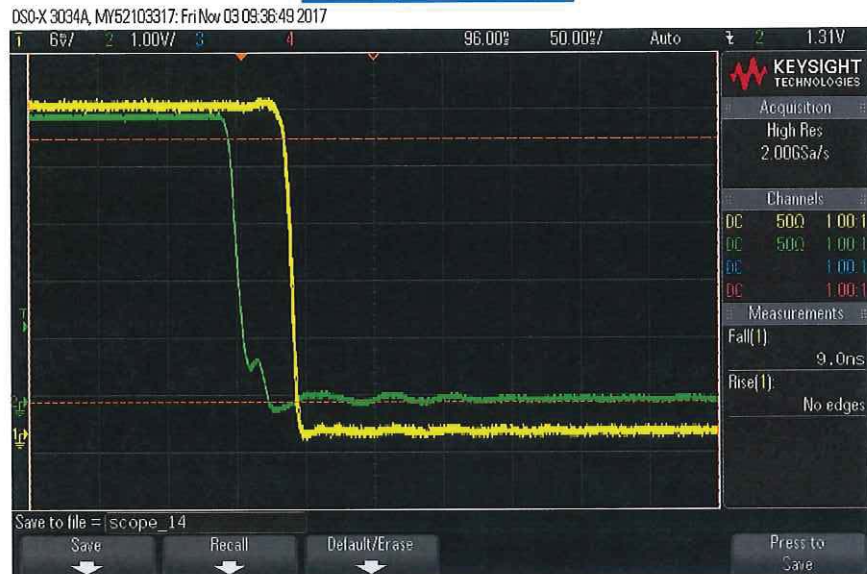




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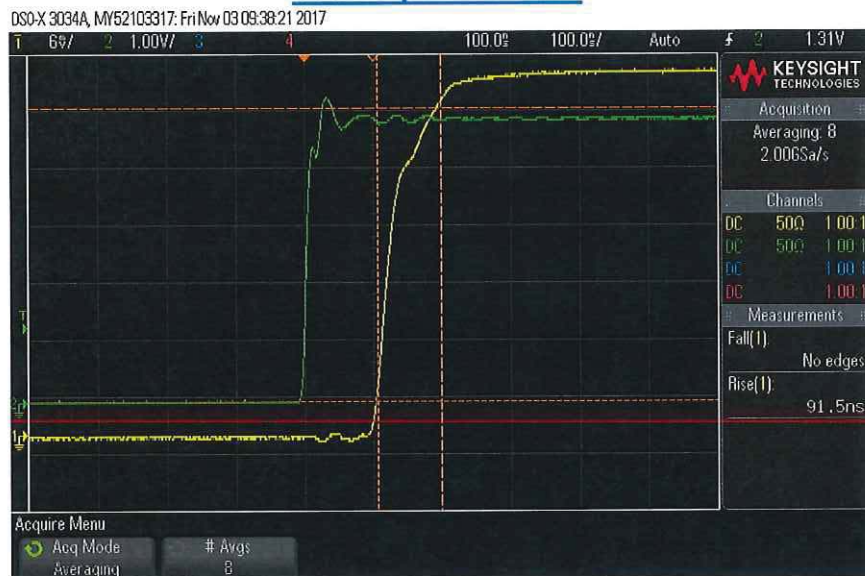
PL21776/1744

**Switching Speed Off Time Fall Time  
50 ns per Division**



**Yellow Trace: RF Signal  
Green Trace: TTL Signal**

**Switching Speed On and Rise Time  
100 ns per Division**



**Yellow Trace: RF Signal  
Green Trace: TTL Signal**



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**High Power CW Output Power Vs. Input Power Graph**  
**Frequency = 10 GHz**

