



**SUMMARY TEST DATA  
ON  
P4T-6G18G-27-T-SFF**

PL25564/1919

Customer: \_\_\_\_\_ Tested By: B. Willard  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: P4T-6G18G-27-T-SFF Date: 1/24/2020  
 Serial No: PL25564/1919 Drawing No: 276 33410 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	6.0 TO 18.0 GHz	6.0 TO 18.0 GHz (See Plots)	PMI QA1
2	Insertion Loss	2.5 dB MAX @ 6.0 GHz TO 8.0 GHz 3.7 dB MAX @ 8.0 GHz TO 12.4 GHz 4.8 dB MAX @ 12.4 GHz TO 18.0 GHz	2.5dB MAX @ 6.0 GHz TO 8.0 GHz 2.7dB MAX @ 8.0 GHz TO 12.4 GHz 3.5dB MAX @ 12.4 GHz TO 18.0 GHz (See Plots)	
3	Isolation (On/All Ports Off)	45 dB MIN @ 6.0 GHz TO 8.0 GHz 27 dB MIN @ 8.0 GHz TO 18.0 GHz	73 dB MIN 53 dB MAX (See Plots)	
4	VSWR	2.3:1 MAX @ 6.0 GHz TO 12.4 GHz 2.0:1 MAX @ 12.4 GHz TO 18.0 GHz	1.97: 1 (See Plots)	
5	RF Impedance:	50 Ω	50 Ω	
6	Switching Speed (ON/OFF):	500 ns MAX (FROM 50% TTL TO 90%/10% RF VOLTAGE)	Switching Speed (ON) 50 ns Switching Speed (OFF) 25 ns (See Typical Characteristics)	
7	Power Supply:	+5.0 VDC ±5% @ 100 mA MAX -15.0 VDC ±5% @ 60 mA MAX	+5.0 VDC ±5% @ 72 mA -15.0 VDC ±5% @ 28 mA	
8	Control Logic	LOGIC "0" = -0.3 V TO +0.8 V FOR PORT ON (LOW LOSS STATE) LOGIC "1" = +2.0 V TO +5.0 V FOR PORT OFF (ISOLATION STATE)	Pass	PMI QA1

LOGIC TABLE (J1: COMMON PORT)

PORT	TTL INPUT LEVEL				J1-J2	J1-J3	J1-J5	J1-J6
	E2	E3	E5	E0				
J2	0	1	1	1	INSERTION LOSS	ISOLATION	ISOLATION	ISOLATION
J3	1	0	1	1	ISOLATION	INSERTION LOSS	ISOLATION	ISOLATION
J5	1	1	0	1	ISOLATION	ISOLATION	INSERTION LOSS	ISOLATION
J6	1	1	1	0	ISOLATION	ISOLATION	ISOLATION	INSERTION LOSS
ALL OFF	1	1	1	1	ISOLATION			

\*: 1 μs MAXIMUM PULSE WIDTH  
 2: A UNIT LOAD IS 2.0 mA SINK CURRENT AND 50 μA SOURCE CURRENT

QA/QC Approval:  Date: 1/27/20

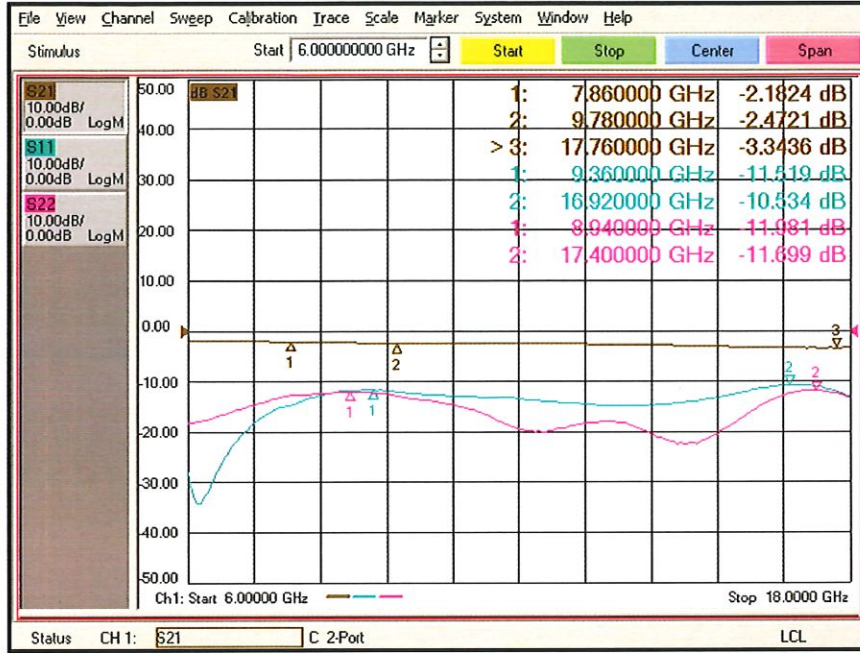
7311-F Grove Road, Frederick, MD 21704 USA  
 Phone: (301) 662-5019 Fax: (301) 662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



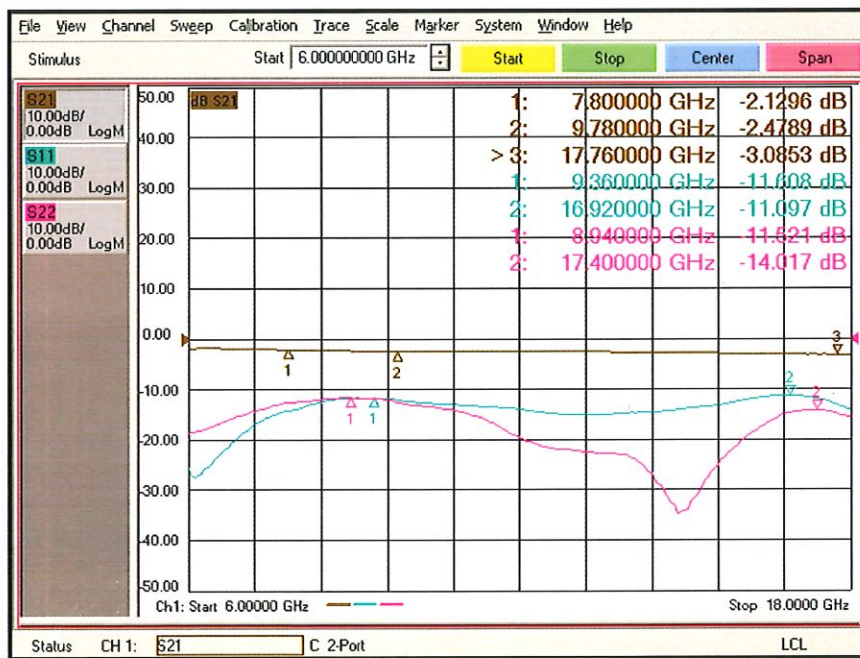
**SUMMARY TEST DATA  
ON  
P4T-6G18G-27-T-SFF**

PL25564/1919

**(J1 – J2) Insertion Loss and Return Loss**



**(J1 – J3) Insertion Loss and Return Loss**



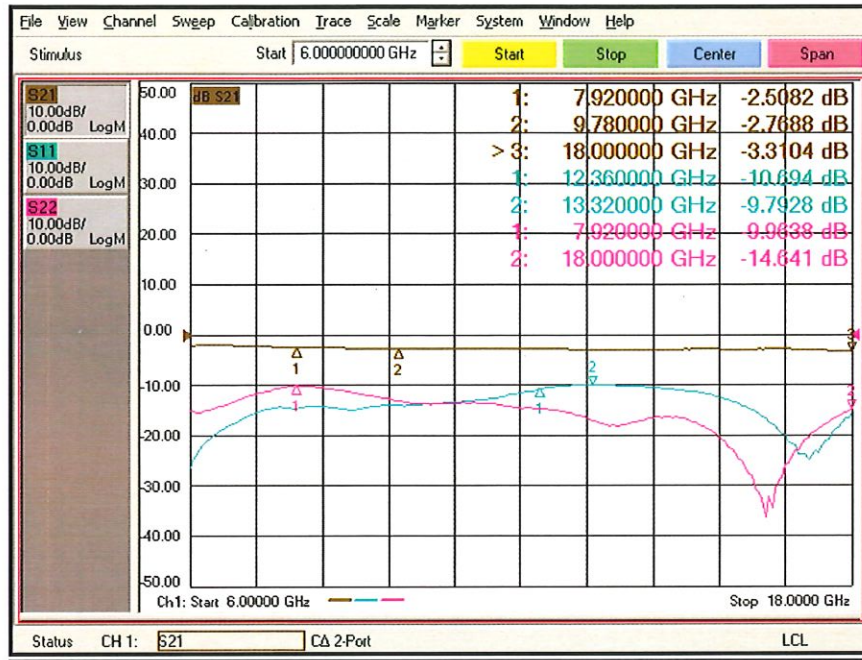
7311-F Grove Road, Frederick, MD 21704 USA  
Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



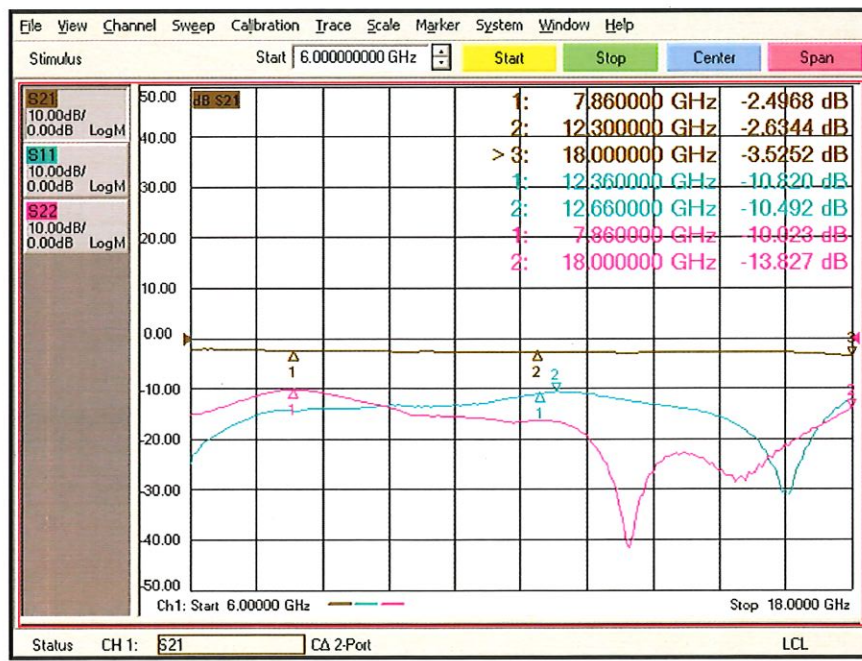
**SUMMARY TEST DATA  
ON  
P4T-6G18G-27-T-SFF**

PL25564/1919

**(J1 – J4) Insertion Loss and Return Loss**



**(J1 – J5) Insertion Loss and Return Loss**



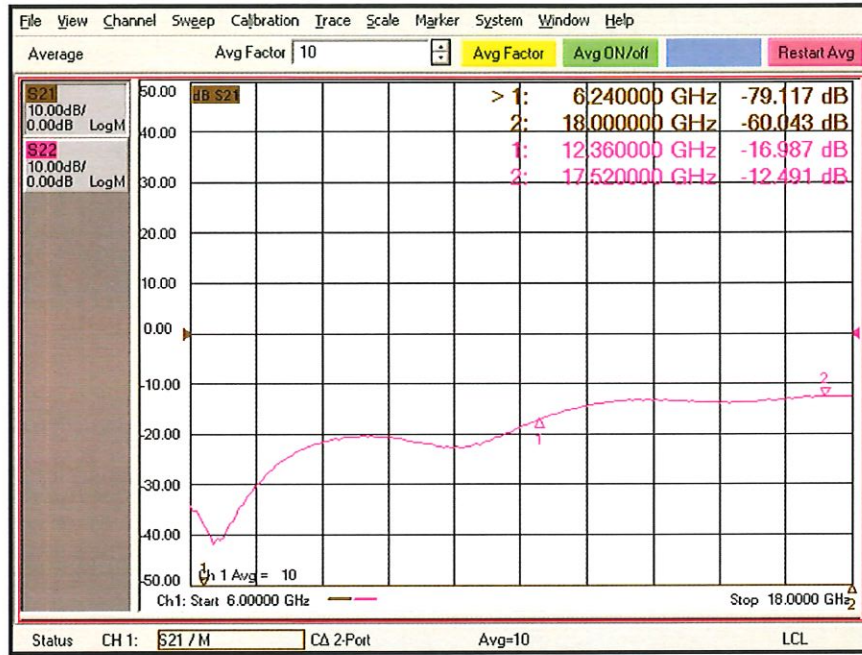
7311-F Grove Road, Frederick, MD 21704 USA  
Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



# SUMMARY TEST DATA ON P4T-6G18G-27-T-SFF

PL25564/1919

## (J1 – J2) Isolation and Termination Return Loss



## (J1 – J3) Isolation and Termination Return Loss



7311-F Grove Road, Frederick, MD 21704 USA  
Phone: (301) 662-5019 Fax: (301) 662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



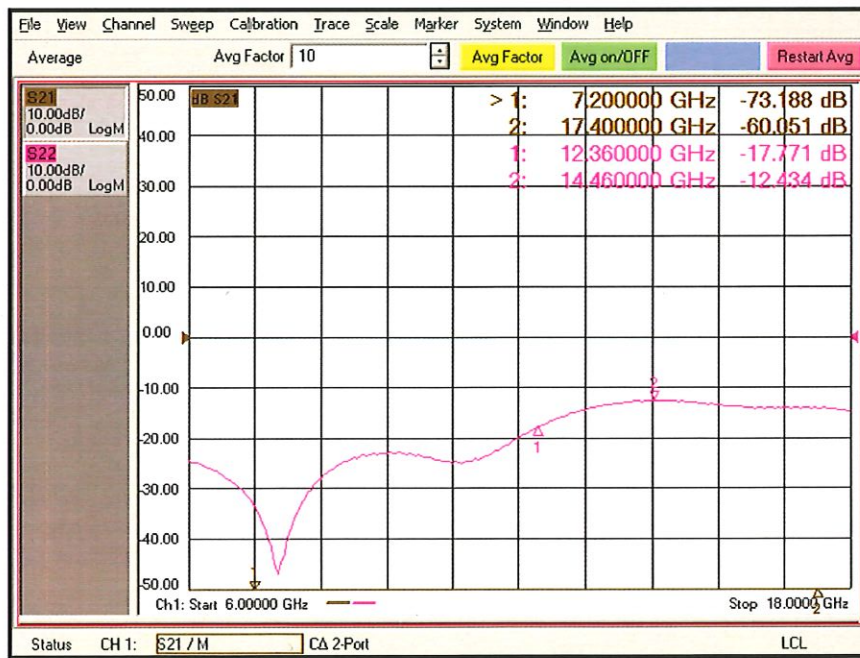
**SUMMARY TEST DATA  
ON  
P4T-6G18G-27-T-SFF**

PL25564/1919

**(J1 – J4) Isolation and Termination Return Loss**



**(J1 – J5) Isolation and Termination Return Loss**



7311-F Grove Road, Frederick, MD 21704 USA  
 Phone: (301) 662-5019 Fax: (301) 662-1731  
 Email: sales@pmi-rf.com