



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

PL22278/1810

Customer: _____
 SO No: _____
 Model No: P4T-6G18G-27-T-SFF
 Serial No: PL22278/1810

Tested By: A. Lopez / H. Gonzales
 Temperature: +25°C
 Date: 04/18/18
 Drawing No: 27633410 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 QA 1																																																																		
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	2.14 dB MAX @ 6.0 GHz TO 8.0 GHz 2.51 dB MAX @ 8.0 GHz TO 12.4 GHz 3.66 dB MAX @ 12.4 GHz TO 18.0 GHz (See Plots)	PMI QA 1																																																																		
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	55.71 dB MIN 65.90 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	Input: 1.51:1 Output: 1.53:1 (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% @ 97 mA -15.0 VDC ±5% @ 30 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) <table border="1"> <thead> <tr> <th colspan="8">LOGIC TABLE (J1: COMMON PORT)</th> </tr> <tr> <th rowspan="2">PORT</th> <th colspan="4">TTL INPUT LEVEL</th> <th rowspan="2">J1-J2</th> <th rowspan="2">J1-J3</th> <th rowspan="2">J1-J5</th> <th rowspan="2">J1-J6</th> </tr> <tr> <th>E2</th> <th>E3</th> <th>E5</th> <th>E6</th> </tr> </thead> <tbody> <tr> <td>J2</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>INSERTION LOSS</td> <td>ISOLATION</td> <td>ISOLATION</td> <td>ISOLATION</td> </tr> <tr> <td>J3</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>ISOLATION</td> <td>INSERTION LOSS</td> <td>ISOLATION</td> <td>ISOLATION</td> </tr> <tr> <td>J5</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> <td>ISOLATION</td> <td>ISOLATION</td> <td>INSERTION LOSS</td> <td>ISOLATION</td> </tr> <tr> <td>J6</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td> <td>ISOLATION</td> <td>ISOLATION</td> <td>ISOLATION</td> <td>INSERTION LOSS</td> </tr> <tr> <td>ALL OFF</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td colspan="4">ISOLATION</td> </tr> </tbody> </table>	LOGIC TABLE (J1: COMMON PORT)								PORT	TTL INPUT LEVEL				J1-J2	J1-J3	J1-J5	J1-J6	E2	E3	E5	E6	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				Pass	PMI QA 1
LOGIC TABLE (J1: COMMON PORT)																																																																						
PORT	TTL INPUT LEVEL				J1-J2	J1-J3	J1-J5	J1-J6																																																														
	E2	E3	E5	E6																																																																		
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
 *: A UNIT LOAD IS 2.0 mA SINK CURRENT AND 50 μA SOURCE CURRENT

QA/QC Approval: Date: 4/18/18

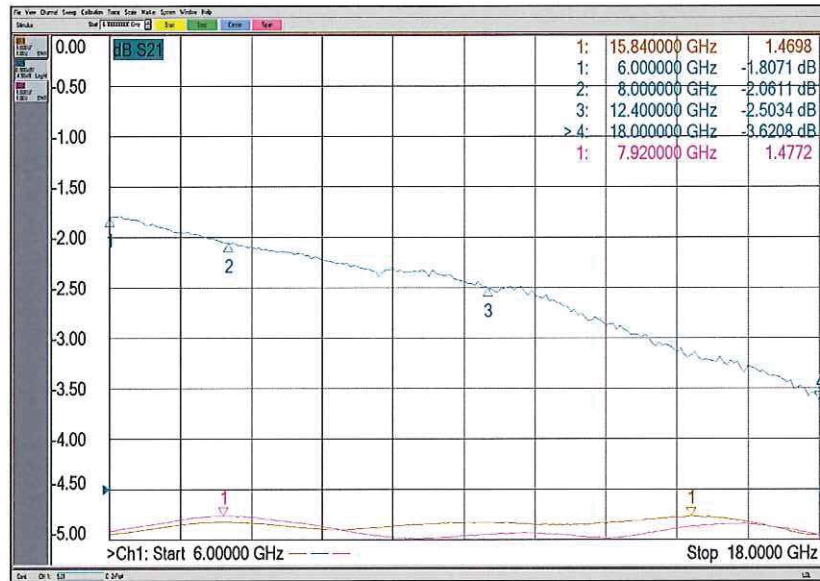
7311-F Grove Road, Frederick, MD 21704 USA
 Phone: (301) 662-5019 Fax: (301) 662-1731
 Email: sales@pmi-rf.com



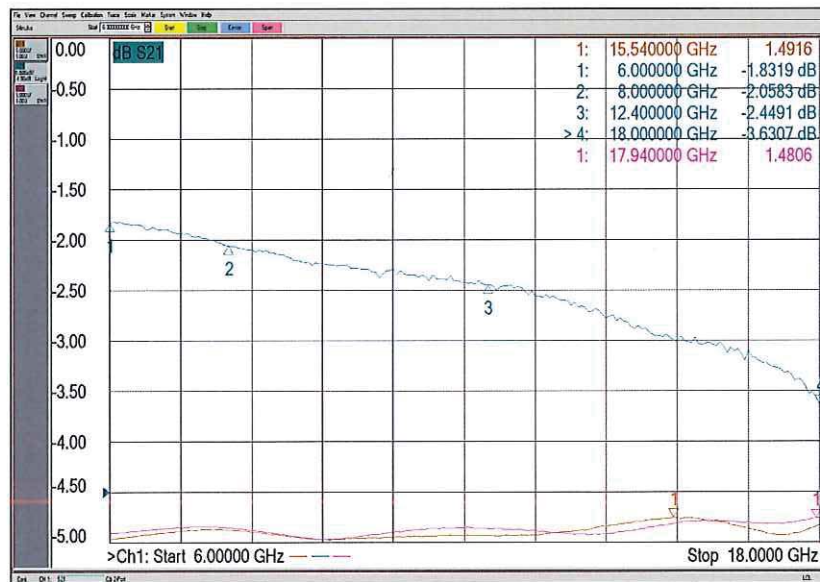
**SUMMARY TEST DATA
ON
P4T-6G18G-27-T-SFF**

PL22278/1810

(J1 – J2) Insertion Loss and VSWR



(J1 – J3) Insertion Loss and VSWR



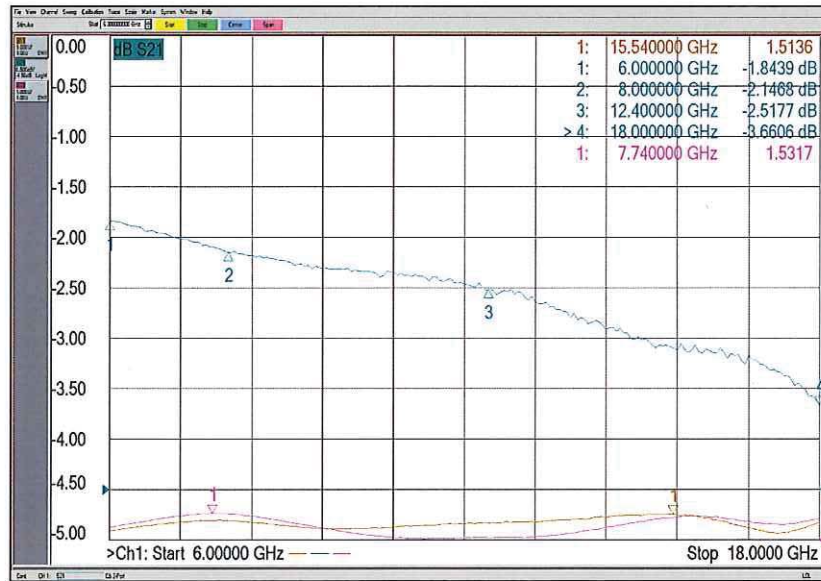
7311-F Grove Road, Frederick, MD 21704 USA
Phone: (301) 662-5019 Fax: (301) 662-1731
Email: sales@pmi-rf.com



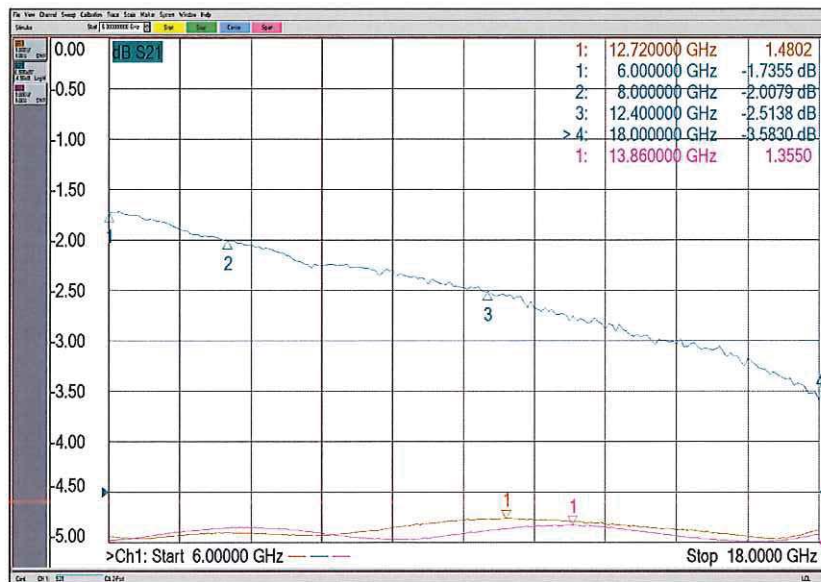
**SUMMARY TEST DATA
ON
P4T-6G18G-27-T-SFF**

PL22278/1810

(J1 – J5) Insertion Loss and VSWR



(J1 – J6) Insertion Loss and VSWR



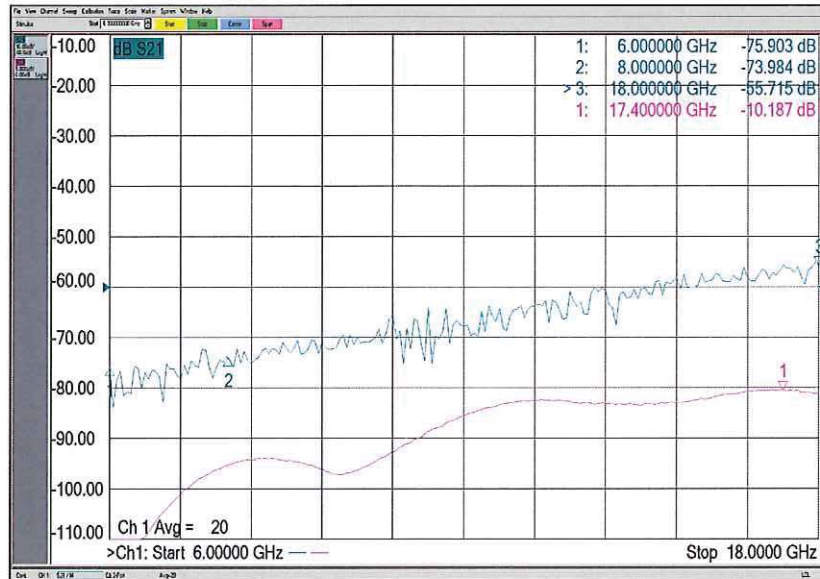
7311-F Grove Road, Frederick, MD 21704 USA
 Phone: (301) 662-5019 Fax: (301) 662-1731
 Email: sales@pmi-rf.com



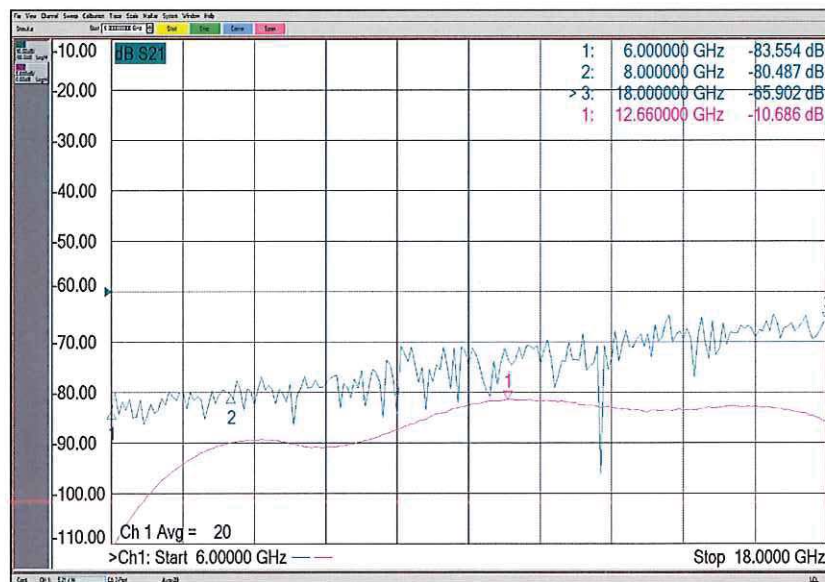
**SUMMARY TEST DATA
ON
P4T-6G18G-27-T-SFF**

PL22278/1810

(J1 – J2) Isolation and Termination Return Loss



(J1 – J3) Isolation and Termination Return Loss



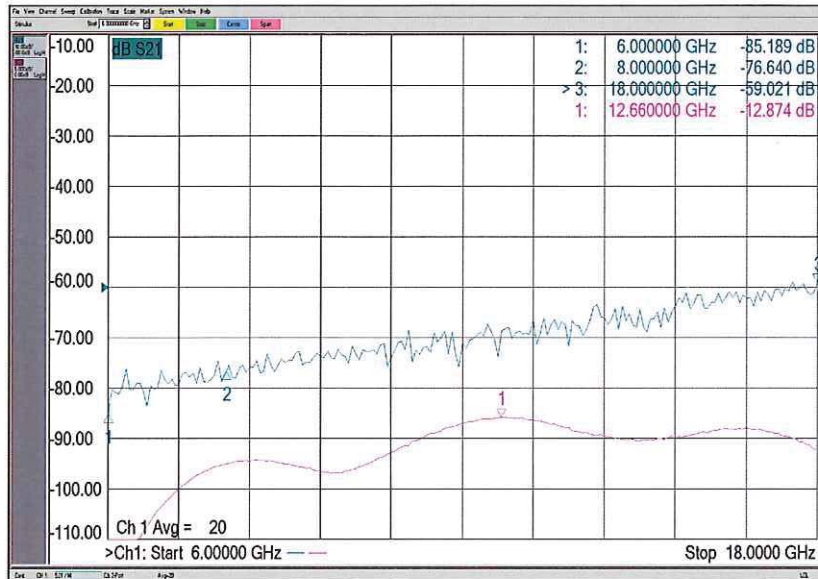
7311-F Grove Road, Frederick, MD 21704 USA
 Phone: (301) 662-5019 Fax: (301) 662-1731
 Email: sales@pmi-rf.com



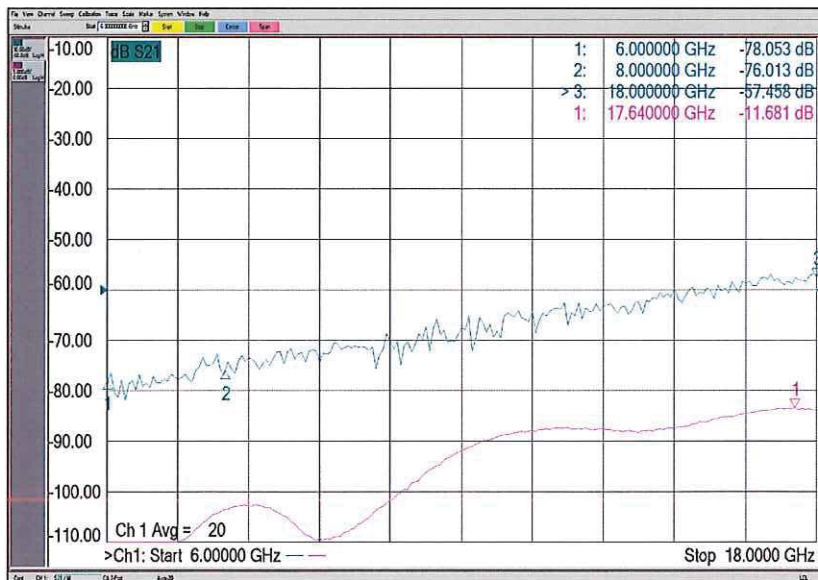
**SUMMARY TEST DATA
ON
P4T-6G18G-27-T-SFF**

PL22278/1810

(J1 – J5) Isolation and Termination Return Loss



(J1 – J6) 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