



**SUMMARY TEST DATA  
ON  
PAT-3D1G3D5G-CD-SFF-NF**

PL23225/1831

Customer: \_\_\_\_\_ Tested By: A. Lopez / S. Palacio  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: PAT-3D1G3D5G-CD-SFF-NF Date: 08/22/18  
 Serial No: PL22425/1831 Drawing No: 27634320 Rev: A1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	3.1 TO 3.5 GHz	3.1 TO 3.5 GHz (See Plot)	PMI QA 1
2	Input Power:	+10 dBm CW	+22 dBm (See Graph)	
3	Power Handling (Without Damage):	0.5 W Peak Power 256us Pulse Width, 0.06 Duty Factor.	Pass By Design	
Low Loss State:				
4	Insertion Loss:	1.10 dB MAX (BI-DIRECTIONAL)	0.75dB (See Plot)	
5	Variation In Loss:	± 0.2 dB Over Any 10 MHz	±0.00025dB	
6	Vswr:	1.20 : 1 MAX	1.20:1 (See Plot)	
7	Insertion Loss Matching:	± 0.2 dB From Golden Unit	± 0.035 dB	
8	Phase Matching:	± 3° From Golden Unit	0° / -1.78°	
Attenuation State:				
9	Attenuation:	30 dB ± 1.0 dB (BI-DIRECTIONAL)	29.82 – 30.19dB	
10	Variation In Attenuation:	± 0.2 dB Over Any 10 MHz	±0.004dB	
11	Vswr:	1.25 : 1 MAX	1.21:1	
12	Insertion Loss Matching:	± 0.20 dB From Golden Unit	± 0.10 dB	
13	Phase Matching:	± 3° From Golden Unit	1.87° / 0°	
Noise Figure:				
14	Low Loss State:	1.10 dB MAX. (BI-DIRECTIONAL)	0.75 dB	
15	Attenuation State:	30 dB ±1.0 dB MAX.	30.19 dB	
16	Switching Speed:	0.5 us MAX	0.420 us	
17	Logic Levels:	PIN D > PIN E: Low Loss State PIN E > PIN D: Attenuation State (INPUT INTO 26LS32 RECEIVER)	Pass	
18	Dc Power Supply:	+15V @ 250 mA MAX -15V @ 100 mA MAX	+15V @ 124 mA -15V @ 15 mA	PMI QA 1

QA/QC Approval: *[Signature]* PMI QA 1 Date: 8/31/18

7311-F Grove Road, Frederick, MD 21704 USA  
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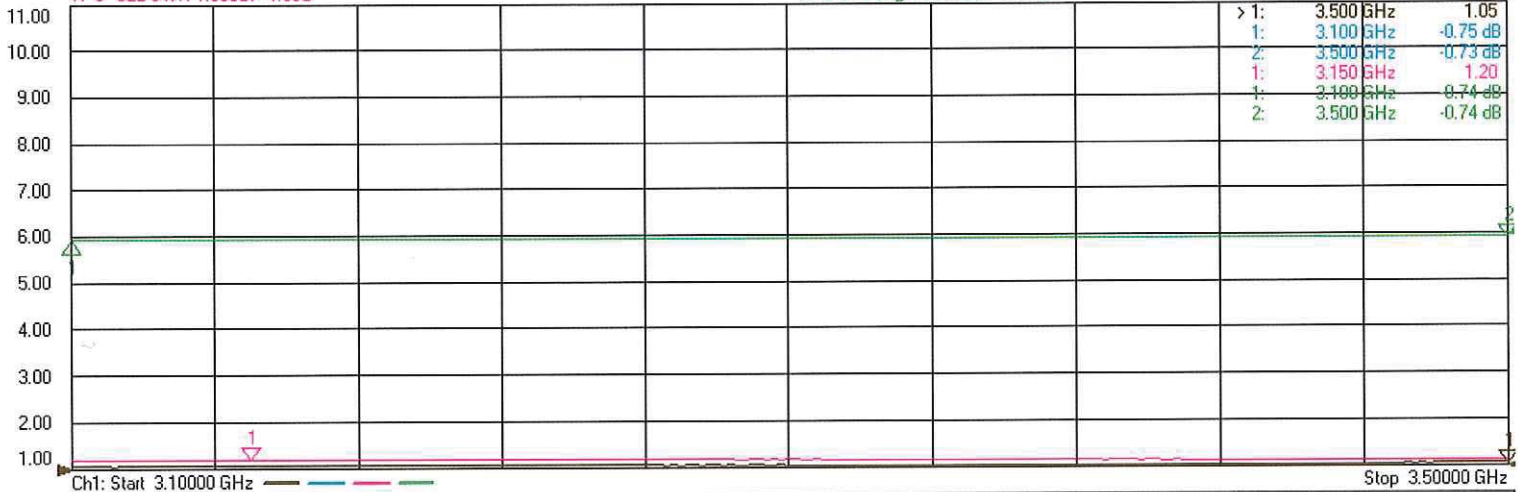
PL23225/1831

**Low Loss State (Bi-Directional), Return Loss and Phase**

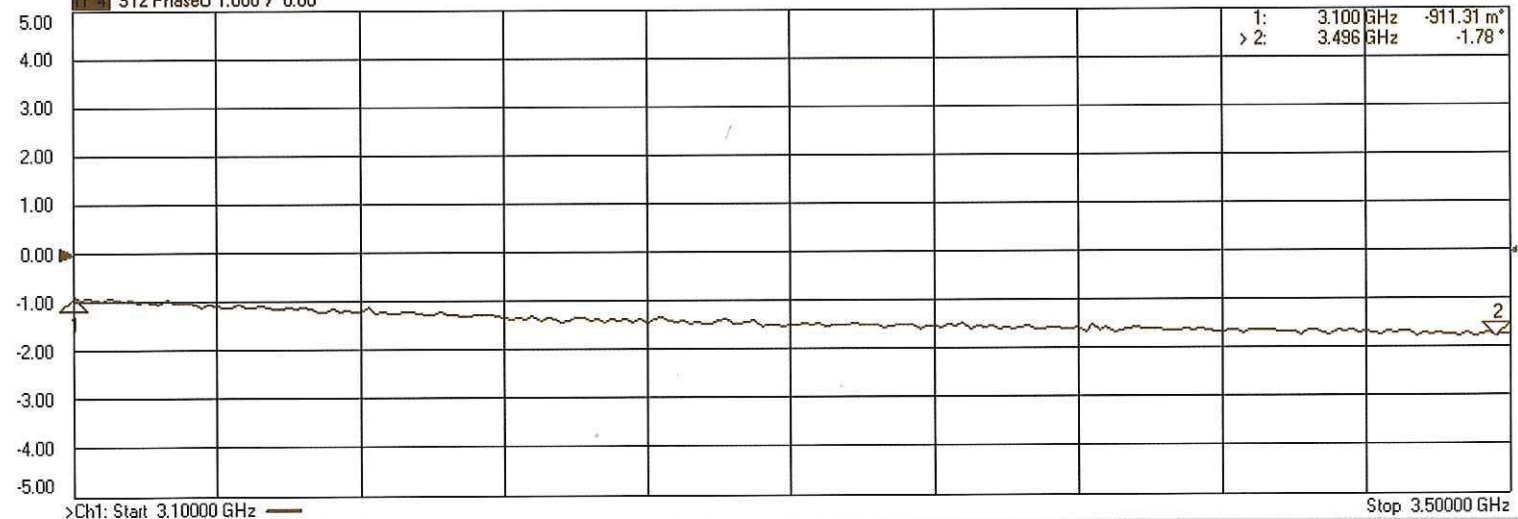
File Trace/Chan Response Marker/Analysis Stimulus Utility Help

Tr 1 S11 SWR 1.000U/ 1.00U  
Tr 3 S22 SWR 1.000U/ 1.00U

Tr 2 S21 LogM 10.00dB/ 0.00dB  
Tr 5 S12 LogM 10.00dB/ 0.00dB



Tr 4 S12 PhaseU 1.000°/ 0.00°



Cont. CH 1: S12 / M CA 2-Port

LCL

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**Attenuation State (Bi-Directional), Return Loss and Phase**



Power

\* Power Level

Power ON | off

Power...

Power and Attenuators...

Start Power

Stop Power

More

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