



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

PL23227/1831

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: PL23227/1831 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) | 0.76dB (See Plot) | | |
| 5 | Variation In Loss: | ± 0.2 dB Over Any 10 MHz | ±0.0005dB | | |
| 6 | Vswr: | 1.20 : 1 MAX | 1.18:1 (See Plot) | | |
| 7 | Insertion Loss Matching: | ± 0.2 dB From Golden Unit | ± 0.1 dB | | |
| 8 | Phase Matching: | ± 3° From Golden Unit | 0° / -0.714° | | |
| Attenuation State: | | | | | |
| 9 | Attenuation: | 30 dB ± 1.0 dB (BI-DIRECTIONAL) | 29.78 – 30.09dB (See Plot) | | |
| 10 | Variation In Attenuation: | ± 0.2 dB Over Any 10 MHz | 0.0038 dB | | |
| 11 | Vswr: | 1.25 : 1 MAX | 1.23:1 | | |
| 12 | Insertion Loss Matching: | ± 0.20 dB From Golden Unit | ± 0.05 dB | | |
| 13 | Phase Matching: | ± 3° From Golden Unit | 0.268° / -0.120° | | |
| Noise Figure: | | | | | |
| 14 | Low Loss State: | 1.10 dB MAX. (BI-DIRECTIONAL) | 0.76dB | | |
| 15 | Attenuation State: | 30 dB ±1.0 dB MAX. | 30.14dB | | |
| 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 2 | |

QA/QC Approval: Date: 8/31/18

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

File Trace/Chan Response Marker/Analysis Stimulus Utility Help

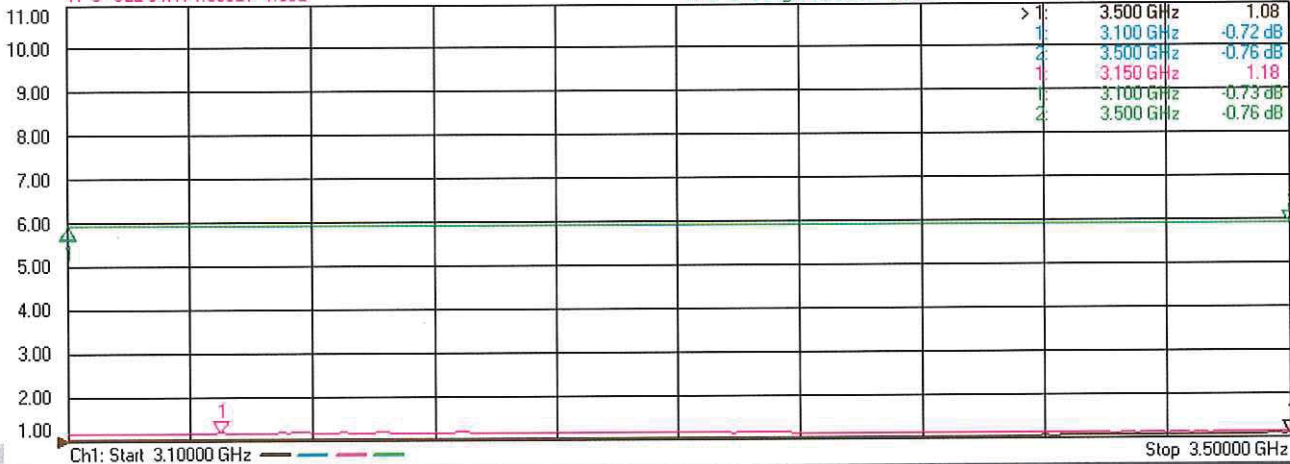
Channel 1

Power Level -10.00 dBm

Power

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



* Power Level

Power
ON | off

Power...

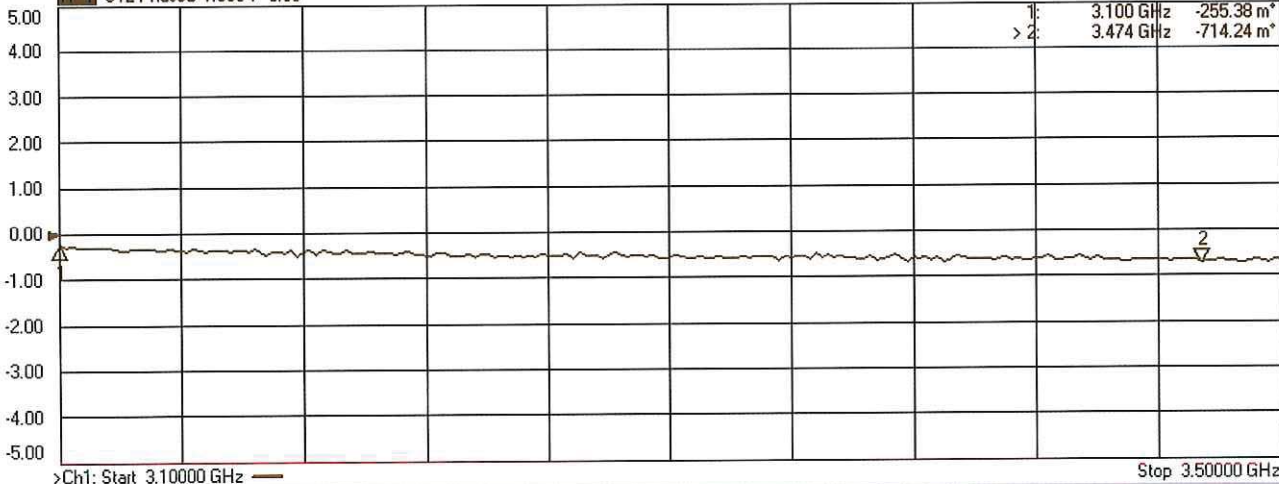
Power and
Attenuators...

Start Power

Stop Power

More

Tr 4 S12 PhaseU 1.000°/ 0.00°



Cont. CH 1: S12 / M CΔ 2-Port

LCL

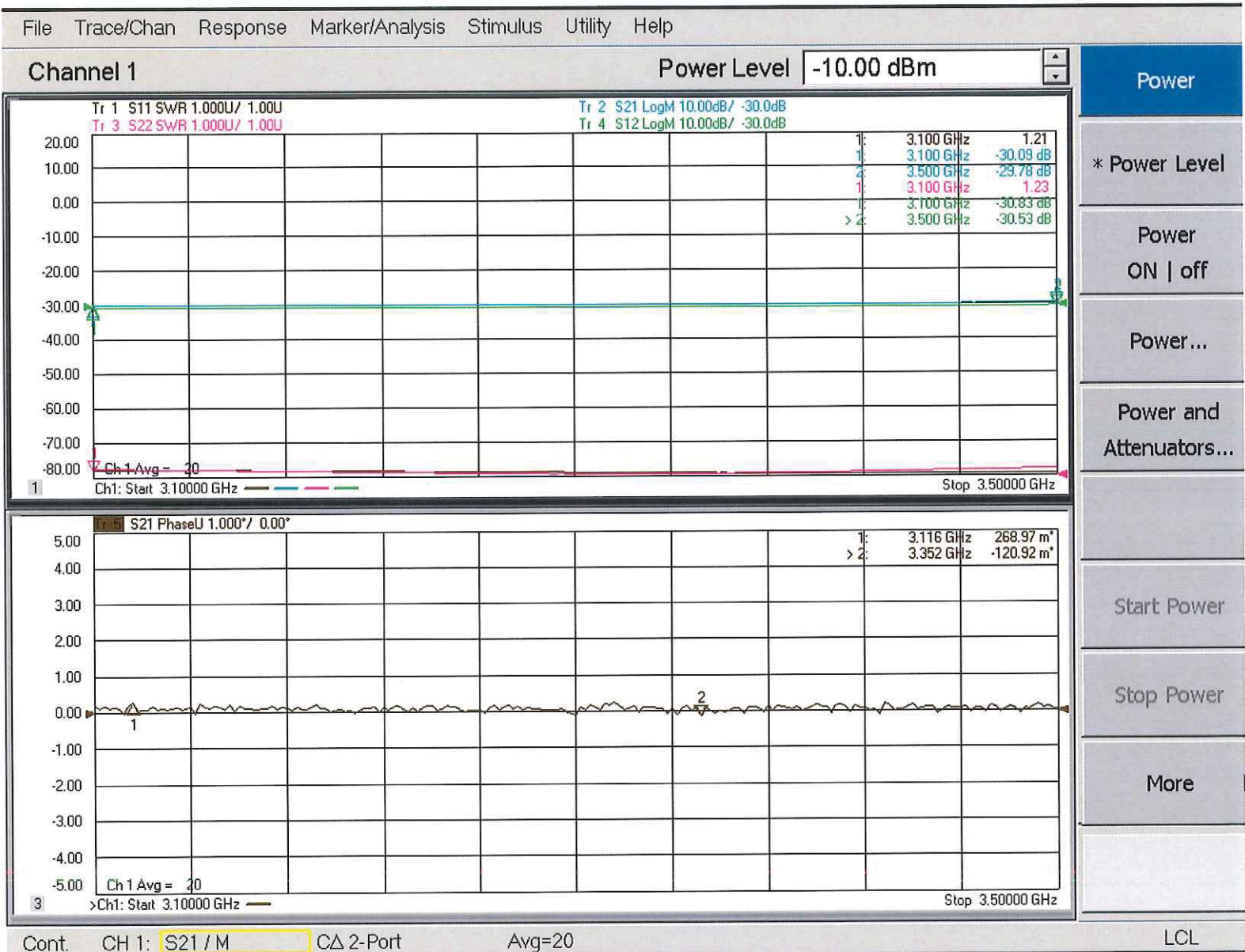
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Attenuation State (Bi-Directional), Return Loss and Phase



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