



SUMMARY TEST DATA ON PEC-40/25-218-21-12-SFF-TTLVG

Customer: _____
 SO No: _____
 Model No: PEC-40/25-218-21-12-SFF-TTLVG
 Serial No: PL29064/2020

Tested By: K. Mansfield
 Temperature: +25°C
 Date: 5/15/2020
 Drawing No: 27605737 REV: B1

| TEST ITEM NO. | PARAMETERS | SPECIFIED VALUE | Test Results | QA QC |
|---------------|--|--|---|------------|
| 1 | Frequency Range: | 2 GHz to 18 GHz | 2 GHz to 18 GHz | PMI QA1 |
| 2 | Max Gain @ Max Gain Position: Min Gain @ Max Gain Position: Max Gain @ Min Gain Position: Min Gain @ Min Gain Position: | +42 dB Max. +38 dB Min. +27 dB Max. +23 dB Min. | 41.7 dB 39.4 dB 26.7 dB 23.9 dB See Plots | |
| 3 | Pout @ 1 dB Compression Max Gain Position: Min Gain Position: | +21 dBm Min. +20 dBm Min. | Pass See Typical Characteristics | |
| 4 | Psat (Both Gains) Over Operating Temperature Range | +26 dBm Max. | Pass See Typical Characteristics | |
| 5 | Noise Max gain Position: Min Gain Position: | +4.5 dB Max. +7.0 dB Max. | Pass See Typical Characteristics | |
| 6 | VSWR: In/Out | 2.0:1 Max. | 1.6:1 In 1.6:1 Out See Plots | |
| 7 | Input/Output Impedance: | 50 Ω Nominal | 50 Ω See Typical Characteristics | |
| 8 | Input Power: (Without Damage) | +20 dBm CW Max. | +20 dBm Pass | |
| 9 | In-Band Harmonics: @ or below the 1 dB Compression Point | -10 dBc Min. | >-10 dBc See Typical Characteristics | |
| 10 | Pulse Rise Time: with input signals up to 20 dBm | <5 ns | <5 ns See Typical Characteristics | |
| 11 | Pulse Overshoot: with input signals up to 20 dBm | <0.5 dB | <0.5 dB See Typical Characteristics | |
| 12 | Pulse Droop: with pulses up to 250 μs in duration input signals up to -20 dBm | <2.0 dB | <2.0 dB See Typical Characteristics | |
| 13 | Pulse Recovery Time: with pulses up to 250 μs in duration input signals up to -20 dBm | 15 ns | <15 ns See Typical Characteristics | |
| 14 | Gain Switching Time: | <500 ns | <500 ns See Typical Characteristics | |
| 15 | Gain Switch Control: | TTL High "1" - Max Gain TTL Low "0" - Min Gain | Pass | |
| 16 | DC Supply: | 610 mA Max. @ +12 V ±5% | 374 mA | PMI QA1 |

QA/QC Approval:  PMI QA1 Date: 5.15.2020



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