



## 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: PL28727/2017

Tested By: K. Mansfield  
 Temperature: +25°C  
 Date: 4/23/2020  
 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<br>QA1 |
| 2             | Max Gain @ Max Gain Position:<br>Min Gain @ Max Gain Position:<br>Max Gain @ Min Gain Position:<br>Min Gain @ Min Gain Position: | +42 dB Max.<br>+38 dB Min.<br>+27 dB Max.<br>+23 dB Min.                                     | 41.6 dB<br>38.1 dB<br>26.8 dB<br>24 dB<br>See Plots        |            |
| 3             | Pout @ 1 dB Compression<br>Max Gain Position:<br>Min Gain Position:  | +21 dBm Min.<br>+20 dBm Min.   | Pass<br>See Typical Characteristics                        |            |
| 4             | Psat (Both Gains)<br>Over Operating Temperature Range  | +26 dBm Max.   | Pass<br>See Typical Characteristics                        |            |
| 5             | Noise<br>Max gain Position:<br>Min Gain Position:  | +4.5 dB Max.<br>+7.0 dB Max.   | Pass<br>See Typical Characteristics                        |            |
| 6             | VSWR:<br>In/Out  | 2.0:1 Max.   | 1.6:1 In<br>1.6:1 Out<br>See Plots                         |            |
| 7             | Input/Output Impedance:  | 50 Ω Nominal   | 50 Ω<br>See Typical Characteristics                        |            |
| 8             | Input Power:<br>(Without Damage)   | +20 dBm CW Max.  | +20 dBm<br>Pass  |            |
| 9             | In-Band Harmonics:<br>@ or below the<br>1 dB Compression Point   | -10 dBc Min.   | >-10 dBc<br>See Typical Characteristics                    |            |
| 10            | Pulse Rise Time:<br>with input signals up to 20 dBm  | <5 ns  | <5 ns<br>See Typical Characteristics                       |            |
| 11            | Pulse Overshoot:<br>with input signals up to 20 dBm  | <0.5 dB  | <0.5 dB<br>See Typical Characteristics                     |            |
| 12            | Pulse Droop: with pulses up to<br>250 μs in duration input signals<br>up to -20 dBm  | <2.0 dB  | <2.0 dB<br>See Typical Characteristics                     |            |
| 13            | Pulse Recovery Time: with<br>pulses up to 250 μs in duration<br>input signals up to -20 dBm                                      | 15 ns  | <15 ns<br>See Typical Characteristics                      |            |
| 14            | Gain Switching Time:   | <500 ns  | <500 ns<br>See Typical Characteristics                     |            |
| 15            | Gain Switch Control:   | TTL High "1" - Max Gain<br>TTL Low "0" - Min Gain  | Pass   |            |
| 16            | DC Supply:   | 780 mA Max. @ +12 V ±5%<br>Max Gain Position<br>610 mA Max. @ +12 V ±5%<br>Min Gain Position | 344 mA<br>Max Gain Position<br>344 mA<br>Min Gain Position | PMI<br>QA1 |

QA/QC Approval: \_\_\_\_\_

PMI  
QA1

Date: 4/23/20



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