Typical Characteristics on P2T-12G18G-70-R-SFF

PMI MODEL: LM-500M8G-12-33DBM-12V IS AN ACTIVE LIMITER OPERATING FROM 500 MHz TO 8.0 GHz.

January 11, 2017
Designed by: PMI Engineering
 Reported by: Kevin Mansfield
Table of Contents

1. Outline Drawing---------------------------------------------Page 3
2. Test Data-----------------------------------------------------Page 4
3. Loss Plot and Response Graph-------------------------------Page 5
Typical Characteristics on P2T-12G18G-70-R-SFF

DESCRIPTION
PMI MODEL: LM-500M8G-12-33DBM-12V IS AN ACTIVE LIMITER OPERATING FROM 500 MHz TO 8.0 GHz.

SPECIFICATIONS
- FREQUENCY RANGE: 0.5 TO 8.0 GHz
- INSERTION LOSS: 2 dB MAXIMUM
- MAXIMUM INPUT POWER: +33 dBm CW
- OUTPUT LEAKAGE POWER: +12.3 dBm MAXIMUM
- VSWR: 2.0:1 MAXIMUM
- DC SUPPLY: +12 VDC @ 180 mA TYPICAL
- CONNECTORS: SMA FEMALE

ENVIRONMENTAL RATINGS
- TEMPERATURE: -55 °C TO +45 °C (OPERATING)
- -55 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B, COND. B
- BISCUIT: MIL-STD-202, METHOD 213B, COND. B
- VIBRATION: MIL-STD-202, METHOD 204D, COND. B
- ALTITUDE: MIL-STD-202, METHOD 106C, COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D, COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE.

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

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ISO 9001 CERTIFIED

PRODUCT FEATURE
LM-500M8G-12-33DBM-12V

PMI CONFIDENTIAL AND PROPRIETARY
<table>
<thead>
<tr>
<th>TEST. ITEM NO</th>
<th>PARAMETERS</th>
<th>SPECIFIED VALUE</th>
<th>TEST RESULTS</th>
<th>QA QC</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Frequency Range:</td>
<td>0.5 to 8.0 GHz</td>
<td>0.5 to 8.0 GHz</td>
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<tr>
<td>2</td>
<td>Insertion Loss:</td>
<td>2.0dB Max</td>
<td>+14.5dB Gain (See Plot)</td>
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</tr>
<tr>
<td>3</td>
<td>Max Input Power:</td>
<td>+33dBm CW</td>
<td>Pass</td>
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<td>4</td>
<td>Output Leakage Power:</td>
<td>+12.3dBm Max</td>
<td>+10.7dBm</td>
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<tr>
<td>5</td>
<td>VSWR:</td>
<td>2.0:1 Max</td>
<td>1.6:1 (See Plot)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>DC Supply:</td>
<td>+12VDC @180mA Typ</td>
<td>240mA</td>
<td></td>
</tr>
</tbody>
</table>

**Insertion Loss and Return Loss**

Page 4 of 5

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