Typical Characteristics
On
LM-500M8G-2-33DBM-12V

0.5-8.0GHz State of the Art Active Limiter

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Design by: Kevin Mason
Tested & Reported by:
Kevin Mason
Typical Characteristics

On

LM-500M8G-2-33DBM-12V

Specifications:

Description:
50MHz to 8.0GHz Active Limiter Measuring the Following Specifications:

5.0 to 6.0 GHz

Input Power

+12V Max.

Output Power

2.0W Max.

VSRR

2.3 dB Min.

DC Supply

+28VDC Max.

SWAP

180mA Typ.

Environmental Ratings:

-55°C to +125°C (Storage)

-55°C to +85°C (Operating)

ML-STD-202F, METHOD 108B, COND B.

ML-STD-202F, METHOD 213B, COND B.

Note: The above specifications are subject to change or revision.

Planar Monolithics Industries Inc.

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com
## Typical Characteristics

On

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<table>
<thead>
<tr>
<th>TEST. ITEM NO</th>
<th>PARAMETERS</th>
<th>SPECIFIED VALUE</th>
<th>TEST RESULTS</th>
<th>QA QC</th>
</tr>
</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>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Insertion Loss:</td>
<td>2.0dB Max</td>
<td>6.36dB GAIN (See Plot)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Max Input Power:</td>
<td>+33dBm CW</td>
<td>Pass</td>
<td></td>
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<tr>
<td>4</td>
<td>Output Leakage Power:</td>
<td>+2.3dBm Max</td>
<td>-0.27dBm</td>
<td></td>
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<tr>
<td>5</td>
<td>VSWR:</td>
<td>2.0:1 Max</td>
<td>Pass (See Plot)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>DC Supply:</td>
<td>+12VDC @ 180mA Typ</td>
<td>138mA</td>
<td></td>
</tr>
</tbody>
</table>
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Insertion Loss & Return Loss
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Input Power vs. Output Power

LIMITER RESPONSE WITH FREQUENCY

RF INPUT POWER (dBm)

OUTPUT POWER (dBm)

0.5GHz
2GHz
8GHz
P/I-P/O