PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER LM-218-14-200W-SMF-HERM IS A HIGH POWER LIMITER THAT WORKS FROM 2 GHz TO 18 GHz THAT HANDLES 200 WATTS PEAK POWER WITH A PULSE WIDTH OF 1uSEC AND 0.1% DUTY CYCLE OR 1 WATT CW. THIS MODEL IS HERMETICALLY SEALED.
## Typical Characteristics on LM-218-14-200W-SMF-HERM

<table>
<thead>
<tr>
<th>TEST ITEM NO.</th>
<th>PARAMETERS</th>
<th>SPECIFIED VALUE</th>
<th>MEASURED VALUE</th>
<th>REMARKS QA/QC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Frequency Range:</td>
<td>2 to 18 GHz</td>
<td>2 to 18 GHz</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Insertion Loss @ -10dBm Input:</td>
<td>2.0 dB Max.</td>
<td>1.8 dB</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Peak Power:</td>
<td>200 Watts, 1 us. Pulse, 0.1% Duty Cycle</td>
<td>200 Watts, 1 us. Pulse, 0.1% Duty Cycle</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Average Power:</td>
<td>1 Watt CW (+30dBm)</td>
<td>1W</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Input &amp; Output VSWR @ 0dBm:</td>
<td>2.0 : 1 Max.</td>
<td>1.7:1 See Plot</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>RF Leakage @ 1 Watt CW (+30 dBm):</td>
<td>+14 dBm Max.</td>
<td>+10 dBm Typ.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Low Limiting Threshold:</td>
<td>+6 dBm Typical</td>
<td>+6 dBm Typical</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Recovery Time @ +27 dBm Input:</td>
<td>100 ns Max.</td>
<td>85ns See Plot</td>
<td></td>
</tr>
</tbody>
</table>
Typical Characteristics on LM-218-14-200W-SMF-HERM

LIMITER RESPONSE WITH FREQUENCY

OUTPUT POWER (dBm)

RF INPUT POWER (dBm)

-8 -6 -4 -2 0 2 4 6 8 10

0 5 10 15 20 25 30

2 GHz 4 GHz 6 GHz 8 GHz
10 GHz 12 GHz 14 GHz 16 GHz 18 GHz

2 GHz

4 GHz

6 GHz

8 GHz

10 GHz

12 GHz

14 GHz

16 GHz

18 GHz
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Recovery Time

100ns per Div.

Agilent Technologies