Typical Characteristics
On
LM-26G40G-14-20W-292FF Rev. B

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER LM-26G40G-14-20W-292FF Rev. B IS
A HIGH POWER LIMITER THAT OPERATES FROM 26.5 GHz TO 40 GHz AND HANDLES 20
WATTS PEAK POWER. THE LEAKAGE POWER IS +14dBm TYPICAL.

Designed By:
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Sebastian Palacio

Tested & Reported By:
Sebastian Palacio

March 26, 2015
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DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-26G40G-14-20W-292FF Rev. B IS A HIGH POWER LIMITER
THAT OPERATES FROM 26.5 GHz TO 40 GHz AND HANDLES 20
WATTS PEAK POWER. THE LEAKAGE POWER IS +14 dBm TYPICAL.

SPECIFICATIONS:

- FREQUENCY: 26.5 GHz TO 40 GHz
- INSERTION LOSS: 4.0 dB MAX.
- PEAK POWER: 20 WATTS (43 dBm)
- PULSE WIDTH: 440 to 670 nsec
- PRF: 600 to 900 kHz
- DUTY CYCLE: 40%
- LEAKAGE POWER: +14 dBm TYPICAL
- 1 dB RECOVERY TIME: 250 nsec MAX
- VSWR: 2.0:1
- CONNECTORS (IN/OUT): 2.92mm FEMALE REMOVABLE
- SIZE: 0.50 X 0.50 X .22
- WEIGHT: 1.5 OZ. TYPICAL

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +60°C (OPERATING)
- TEMPERATURE: -50°C TO +70°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 1038 COND. A
- SHOCK: MIL-STD-202F, METHOD 2130 COND. B
- VIBRATION: MIL-STD-202F, METHOD 2040 COND. B
- ALTITUDE: MIL-STD-202F, METHOD 1065 COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 1070 COND. A

NOTICE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.
<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>26.5 GHz – 40 GHz</td>
<td>26.5 GHz – 40 GHz</td>
<td>See Plot</td>
</tr>
<tr>
<td>2</td>
<td>INSERTION LOSS:</td>
<td>4.0dB MAX.</td>
<td>2.96dB</td>
<td>See plot</td>
</tr>
<tr>
<td>3</td>
<td>PEAK POWER:</td>
<td>20 Watts @ 440-670 ns pulse width, PRF 600 to 900 kHz, and 40% Duty Cycle</td>
<td>PASS</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>LEAKAGE POWER</td>
<td>+14dBm TYPICAL</td>
<td>Pass</td>
<td>See Graph</td>
</tr>
<tr>
<td>5</td>
<td>RECOVERY TIME to 1dB:</td>
<td>250ns MAX</td>
<td>&lt;100ns</td>
<td>See Plot</td>
</tr>
<tr>
<td>6</td>
<td>VSWR</td>
<td>2.0:1</td>
<td>1.92:1</td>
<td>See Plot</td>
</tr>
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Insertion Loss
& IN/OUT Return Loss
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![Limiter Response with Frequency Graph](image-url)
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Recovery Time
200ns per Div.

50ns per Div.