PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-18G40G-18-1W-292FF IS A HIGH POWER LIMITER THAT OPERATES
FROM 18.0 GHz TO 40 GHz AND HANDLES
1 WATT CW POWER. THE LEAKAGE POWER IS +18dBm MAXIMUM.

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DESIGNED BY:
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SEBASTIAN PALACIO

TESTED & REPORTED BY:
SEBASTIAN PALACIO
Typical Characteristics on
LM-18G40G-18-1W-292FF

DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-18G40G-18-1W-292FF IS A HIGH POWER LIMITER THAT
OPERATES FROM 18.0 GHz TO 40 GHz AND HANDLES 20 WATTS
PEAK POWER. THE LEAKAGE POWER IS +18dBm MAXIMUM.

SPECIFICATIONS:
• FREQUENCY: 18.0 GHz TO 40 GHz
• INSERTION LOSS: 4.0dB MAX. (See Note 1)
• INPUT POWER: 1 WATT CW Max.
• VSWR: 2.1:1 (See Note 1)
• LEAKAGE POWER: +18dBm Max. (See Note 2)
• LIMITING THRESHOLD: +9dBm Max.
• RECOVERY TIME: 10nsec Max.
• CONNECTORS: 2.92mm FEMALE REMOVABLE (K-Type Equivalent)
• SIZE: 0.50 X 0.50 X .22
• WEIGHT: 1.5 OZ. TYPICAL
• FINISH: GOLD PLATED

NOTE 1: Insertion Loss and VSWR tested at -10dBm.
NOTE 2: Power Rating derated to 20% at +125 Degrees C.

ENVIRONMENTAL RATINGS
• TEMPERATURE: -54°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)

NOTE: 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>TEST RESULTS</th>
<th>QA QC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FREQUENCY RANGE:</td>
<td>18.0 GHz TO 40 GHz</td>
<td>18.0 GHz TO 40 GHz See Plots</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>*INSERTION LOSS:</td>
<td>4.0dB Max.</td>
<td>3.51dB See Plots</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>INPUT POWER:</td>
<td>1 WATT CW Max.</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>*VSWR:</td>
<td>2.1:1</td>
<td>1.87:1 See Plots</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>**LEAKAGE POWER:</td>
<td>+18dBm Max.</td>
<td>+12dBm Typ. See Graph</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>LIMITING THRESHOLD:</td>
<td>+9dBm Max.</td>
<td>+5dBm Typ. See Graph</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>RECOVERY TIME:</td>
<td>10ns Max.</td>
<td>&lt;10ns See Plots</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE 1: Insertion Loss and VSWR tested at -10dBm.
**NOTE 2: Power Rating derated to 20% at +125 Degrees C.
Typical Characteristics
on
LM-18G40G-18-1W-292FF

Insertion Loss & Return Loss (In/Out)
**Power Input vs. Power Output**

**LIMITER RESPONSE WITH FREQUENCY**

- **Output Power (dBm):**
  - 18 GHz
  - 26 GHz
  - 32 GHz
  - 40 GHz
  - P/I-P/O

- **RF Input Power (dBm):**
  - -15
  - -10
  - 0
  - 5
  - 10
  - 15
  - 20
  - 25

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Recovery Time
1Watt - Pulse IN