SQUARE-WAVE LO BUFFER-AMPLIFIER

Features
- Frequency Range 1.0 to 26.0 GHz
- Very Broadband
- Surface Mount Package
- +10 dBm Typical Input Power
- +20 dBm Typical Saturated Output Power

Electrical Specifications - Specifications guaranteed from -30 to +70°C, measured in a 50-Ohm system.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (GHz)</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input (dBm)</td>
<td>1.0-26.0</td>
<td>+10 to +15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturated Output Power (dBm)</td>
<td>1.0-26.0</td>
<td>+14</td>
<td>+20</td>
<td></td>
</tr>
<tr>
<td>Small Signal Gain (dB)</td>
<td>1.0-26.0</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>1.0-26.0</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bias Requirements (mA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+5.0 Volts DC</td>
<td></td>
<td>105</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>-0.7 Volts DC (.5 volt DC Option)</td>
<td></td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

1It is recommended that the negative bias be applied before or concurrent with the positive bias.

Model Number

<table>
<thead>
<tr>
<th>Description</th>
<th>Package Style(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-126EQ (OBS)</td>
<td>EQ, EQP</td>
</tr>
<tr>
<td>A-126EQP (OBS) .005 to 10 GHz Amplifier</td>
<td>EQ, EQP</td>
</tr>
</tbody>
</table>

NOTE: This product is obsolete. Please see this page for new surface mount LO driver amps.

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**Typical Performance**

**Saturated Output Power - dBm**

- 1.0 GHz: 23.0 dBm
- 10 dBm In
- 18.0 dBm
- 13.0 dBm
- 26.0 GHz

**Second Harmonic - dBc**

- 2.0 GHz: -20.0 dBc
- +5V
- -0.7V
- 13.0 dBm
- 18.0 dBm
- 26.0 GHz

**DATA SHEET NOTES:**

1. Maximum input power without damage is +20 dBm at +70°C.
2. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.