SQUARE-WAVE LO BUFFER-AMPLIFIER

Features
- Frequency Range 5.0 MHz to 30.0 GHz
- Ultra-Broadband
- Surface Mount Package
- +10 dBm Typical Input Power
- +23 dBm Typical Saturated Output Power
- Buffer- Amplifiers for Mixer LO

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>.005-30.0</td>
<td>+10</td>
<td>+15</td>
<td></td>
</tr>
<tr>
<td>Saturated Output Power (dBm)</td>
<td>±6 Volts Bias</td>
<td>.005-30.0</td>
<td>+17</td>
<td>+23</td>
</tr>
<tr>
<td>Saturated Output Power (dBm)</td>
<td>±5 Volts Bias</td>
<td>.005-30.0</td>
<td>+16</td>
<td>+21</td>
</tr>
<tr>
<td>DC Bias Requirements (mA) 1</td>
<td>+5.0 to +7.0 Volts</td>
<td>135</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>DC Bias Requirements (mA) 1</td>
<td>-3.0 to -6.0 Volts</td>
<td>10</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

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

Part Number Options

Please specify a package style by adding to the model number.

<table>
<thead>
<tr>
<th>Package Style</th>
<th>Examples</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connectorized</td>
<td>EQP (OBS)</td>
<td>A-30EQ, A-30EQP</td>
</tr>
<tr>
<td>Surface Mount 1</td>
<td>EQ (OBS)</td>
<td>A-30 (Model) EQP (Package)</td>
</tr>
</tbody>
</table>

1Connectorized test fixtures available for most carrier and surface mount packages. Contact factory.

Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use of or application of any product.

215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com
LO BUFFER-AMPLIFIER

Page 2

A-30

Frequency .005 to 30.0 GHz

Typical Performance

30.0 GHz

Saturated Output Power - dBm

+/-6V Bias

+/-5V Bias

5 MHz

3 MHz

3rd Harmonic Output Power - dBm

5MHz

5th Harmonic Output Power - dBm

DATA SHEET NOTES:

1. Maximum input power without damage is +17 dBm at +70°C.
2. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use or application of any product.

© Marki Microwave, Inc.

www.markimicrowave.com

215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com