Features

- Frequency Range 18.0 to 44.0 GHz
- 0 to +5 dBm Typical Input Power
- +16 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>18.0-44.0</td>
<td>0 to 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturated Output Power (dBm)</td>
<td>18.0-44.0</td>
<td>+10</td>
<td>See Plot</td>
<td></td>
</tr>
<tr>
<td>Small Signal Gain (dB)</td>
<td>18.0-44.0</td>
<td></td>
<td>See Plot</td>
<td></td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>18.0-44.0</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bias Requirements (mA)¹</td>
<td>18.0-44.0</td>
<td>320</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>+3.5 Volts DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5.0 Volts DC</td>
<td></td>
<td>&lt; 5</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

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

NOTE: A-1844 is approaching EOL. Please see this letter for LTB and recommended part information.

Model Number | Description                                      | Package Style |
-------------|--------------------------------------------------|---------------|
A-1844 EOL   | 18.0 to 44.0 GHz Amplifier (2.92 mm F-M connectors)| ESP           |

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.
Typical Performance

Frequency 18.0 to 44.0 GHz

Saturated Power Output (dBm): +3.5/-5.0V Bias

Small Signal Gain (dB)

2nd Harmonic Saturated Power Output (dBm): +3.5/-5.0V Bias

3rd Harmonic Saturated Power Output (dBm): +3.5/-5.0V Bias

Small Signal Input VSWR

Small Signal Output VSWR

DATA SHEET NOTES:

1. Maximum input power without damage is +18 dBm at +70°C.
2. A heat sink is required for long term operation.
3. 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.

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

www.markimicrowave.com