MINIATURE ULTRA-WIDEBAND RF AMPLIFIERS

0.5 – 40 GHz

FEATURES

- Wide Bandwidth
- Miniature Sizes For Drop-In Applications
- Low Power Consumption
- Flat Gain Response
- Low Noise Figure

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics
- Telecom Infrastructure

ENVIRONMENTAL RATINGS

Max Input Power

- 100mW

Operating Temperature Range

- -55°C to +85°C

Storage Temperature Range

- -65°C to +125°C

Shock

- 50G, 11 msec

Vibration

- 20G, 100 to 2000 Hz

Specifications: (@ +25°C)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQ. RANGE (GHz)</th>
<th>MIN</th>
<th>MAX GAIN VARIATION (+/- dB)</th>
<th>MAX N. F. (dB)</th>
<th>MAX VSWR</th>
<th>MIN P OUT @ 1 dB COMP (dBm)</th>
<th>DC POWER (mV, mA) NOM</th>
<th>OUTLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF182055</td>
<td>0.5 - 18</td>
<td>11</td>
<td>1.0</td>
<td>5.0</td>
<td>2.1</td>
<td>+ 3</td>
<td>+ 3.2</td>
<td>30</td>
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<tr>
<td>AF182065</td>
<td>1.0 - 18</td>
<td>11</td>
<td>1.0</td>
<td>6.0</td>
<td>2.5:1</td>
<td>+ 3</td>
<td>+ 3.2</td>
<td>30</td>
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<td>AF202056</td>
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<td>+ 3.2</td>
<td>30</td>
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<td>AF218055</td>
<td>2.0 - 18</td>
<td>15</td>
<td>1.0</td>
<td>5.0</td>
<td>2.1</td>
<td>+ 3</td>
<td>+ 3.2</td>
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<tr>
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<td>0.5 - 18</td>
<td>20</td>
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<td>5.5</td>
<td>2.2:1</td>
<td>+ 10</td>
<td>+ 5.0</td>
<td>150</td>
</tr>
</tbody>
</table>

Note 1: DC power requirement – Current listed is the nominal value for bias voltages below 6V variation +/- 0.2V from specified. Permanent damage will occur if higher voltage is applied. Option is available for internally integrated regulator for bias voltage of +12V or +15V. (Packages size may change) Internal Regulator is provided +12V Bias Modules. Also, option is available including voltage regulator for +12V or +15V Bias.

Note 2: Standard Outline is 1A or 1C as specified. Add “L3” to end of model number for L3 Option.

For Package Outlines see Outline Drawings Page