Features

• Low noise figure
• Up to full waveguide bandwidth
• Single power and light weight
• Wide operational temperature range

Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Frequency (GHz)</th>
<th>BW (GHz)</th>
<th>Noise Figure (dBm/Min)</th>
<th>Gain, (dB)</th>
<th>Current (mA) (max @ 12V)</th>
<th>VSWR (Typ)</th>
<th>Outline</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALN-22093515</td>
<td>18.0 - 26.5</td>
<td>8.5</td>
<td>3.5</td>
<td>15</td>
<td>100</td>
<td>2:1</td>
<td>WT-A-1</td>
</tr>
<tr>
<td>ALN-22093530</td>
<td>18.0 - 26.5</td>
<td>8.5</td>
<td>3.5</td>
<td>30</td>
<td>200</td>
<td>2:1</td>
<td>WT-A-3</td>
</tr>
<tr>
<td>ALN-33144020</td>
<td>26.5 - 40.0</td>
<td>13.5</td>
<td>4.5</td>
<td>20</td>
<td>100</td>
<td>2:1</td>
<td>WT-A-1</td>
</tr>
<tr>
<td>ALN-33144030</td>
<td>26.5 - 40.0</td>
<td>13.5</td>
<td>4.5</td>
<td>30</td>
<td>200</td>
<td>2:1</td>
<td>WT-A-3</td>
</tr>
<tr>
<td>ALN-61086015</td>
<td>57.0 - 65.0</td>
<td>8.0</td>
<td>6.0</td>
<td>15</td>
<td>100</td>
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<td>WT-A-5</td>
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<tr>
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<td>57.0 - 65.0</td>
<td>8.0</td>
<td>6.0</td>
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<td>150</td>
<td>2:1</td>
<td>WT-A-5</td>
</tr>
<tr>
<td>ALN-94046015</td>
<td>92.0 - 96.0</td>
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<td>6.0</td>
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<td>WT-A-5</td>
</tr>
<tr>
<td>ALN-94046030</td>
<td>92.0 - 96.0</td>
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<td>6.0</td>
<td>30</td>
<td>100</td>
<td>2:1</td>
<td>WT-A-5</td>
</tr>
</tbody>
</table>

All specifications are subject to change without notice.

Description

ALN series low noise amplifiers are constructed with discrete or MMIC PHEMT devices that operate at the frequency range of 18 to 100 GHz. These amplifiers are especially designed for low noise applications. The amplifiers are offered in two categories, namely, standard and custom built. The custom built amplifiers are offered in various RF interfaces, including standard waveguide or coax connectors, for convenient system integration. Optional input and output integrated isolators are available to further improve the port return loss.

Applications

• Communication receivers
• Radar front
• Wideband radiometry
• Transceiver subassemblies

For more information, contact our sales team at 310.513.7200 or rfsales@ducommun.com
Custom Built Amplifiers

The amplifiers with the performance other than listed above are available per customer's request. You may submit your specifications along with the model number per the following instructions.

- Specify model number
- Center frequency in GHz
- Bandwidth in GHz
- Gain in dB
- Noise figure in 1/10 of dB

Ordering Example: Low noise amplifier with center frequency 42 GHz, 2 GHz bandwidth, 5.5 dB noise figure and 24 dB gain, specify ALN-42025524-XX

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