ETX115-M1
[0.5 – 2.7] GHz Broadband 2 Watt Power Amplifier Module

Application
NewEdge Signal Solutions ETX115 is a 2W Power Amplifier module delivering high gain, high power across a wide RF transmit bandwidth. This 2W compact module can be used for a wide range of applications including LTE Signals for use in tactical communication, test and measurement or electronic warfare systems. It has high gain across the full [0.5-2.7] GHz band and uses a single +12V supply.

Features
• Frequency: [500 – 2700] MHz
• P1dB: 33 dBm @ 1500 MHz
• Small Signal Gain: 38.0 +/- 1.5dB
• Single +12V Supply Rail
• Integrated Power Supplies and Sequencing
• High Efficiency: >20%
• Compact size: [2.6 x 1.86 x .75]”
• 50 Ohm Operation

Specifications

Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA = +25°C, with Vcc = +12V, 50 Ohm System</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>[0.5 – 2.7] GHz</td>
</tr>
<tr>
<td>Small Signal Gain</td>
<td>+40 dB</td>
</tr>
<tr>
<td>Gain Flatness</td>
<td>+/- 1.0 dB</td>
</tr>
<tr>
<td>Peak Output Power (P1dB)</td>
<td>+33 dBm</td>
</tr>
<tr>
<td>10MHz LTE Non Memory ACLR [25.5dBm Ave, 7.5dB PAPR]</td>
<td>&gt; 45dBc</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>&lt; 2.2:1</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>+12 V</td>
</tr>
<tr>
<td>Supply Current (@ 33dBm)</td>
<td>&lt;700 mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>[-40 to +85] C</td>
</tr>
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</table>
ETX115 Small Signal Gain vs Frequency

ETX115 Output Power vs Input Power by Frequency

ETX115 Large Signal Gain vs Input Power by Frequency
Disclaimer

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