GaN SSPA Predistorter
C, X, Ku, Ka, and Q Bands

Wideband Performance
Requires only single control voltage
Temperature variable option available
Provides predistortion at peak power and back-off
Custom Designs: for special brands and both amplitude and phase correction
Provides 3dB more O/P power performance

Increase Usable Output Power and Efficiency of your GaN Amplifier

Outline Specifications

9 Pin D-Sub connector male
Mounting holes tapped 4-40 x4 0.20 depth
Jack Post 4-40
1.82
1.53
0.86
0.36
0.58
0.20
0.00
0.00
0.28
1.73
1.73
0.61
0.60
0.10
1.73

Predistortion Linearizers Can Give an Effective 4X Power Increase with Multicarrier Traffic
# GLFE-Series - General Performance Summary

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1. Frequency Range</td>
<td>C</td>
<td>GLFE 6000XX</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>GLFE 8000XX</td>
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<tr>
<td></td>
<td>Ku</td>
<td>GLFE 14001XX</td>
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<tr>
<td></td>
<td>Ka-Band</td>
<td>GLFE 28000</td>
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<tr>
<td></td>
<td>Q-Band</td>
<td>GLFE 45000</td>
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<tr>
<td></td>
<td>Other Frequencies Available</td>
<td></td>
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<tr>
<td>2. Power Level In for Rated Power</td>
<td>-20 to -5 dBm (Extended Range Available)</td>
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<tr>
<td>3. Power Level Out for Rated Power</td>
<td>Available</td>
<td>5 dBm to 15 dBm</td>
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<tr>
<td>4. Output Backoff (From Single Carrier Rated Power)</td>
<td>Minimum Carrier to Intermodulation (C/I) Ratio (with HPA)</td>
<td></td>
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<tr>
<td></td>
<td>3 dB</td>
<td>&gt; 25 dB</td>
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<td></td>
<td>&gt; 4 dB</td>
<td>&gt; 30 dB</td>
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<tr>
<td>5. Gain Flatness</td>
<td>&lt;+/- 0.5 dB Over Any 500 MHz</td>
<td></td>
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<tr>
<td>6. Gain Slope</td>
<td>&lt; 0.02 dB/MHz</td>
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<tr>
<td>7. Gain Stability Over Temperature</td>
<td>&lt; ± 1 dB, -10 to 50 °C</td>
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<tr>
<td>8. Static Phase Shift</td>
<td>&lt; ± 5 degrees to Rated Power (with HPA)</td>
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<tr>
<td>9. Spurious/Noise</td>
<td>&lt; -132 dBW/4 KHz at Max Gain</td>
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<tr>
<td>10. Input/Output VSWR</td>
<td>&lt; 1.35</td>
<td></td>
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<tr>
<td>11. Power</td>
<td>12 Volts dc, &lt; 350 mA</td>
<td></td>
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<tr>
<td>12. RF Interface</td>
<td>2 SMA Female Connectors</td>
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<tr>
<td>13. DC Interface</td>
<td>15 Pin Male</td>
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