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

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

1. **Frequency Range**
   - C: GLFE 6000XX, 5.0 - 7.0 GHz
   - X: GLFE 8000XX, 7.0-10.0 GHz
   - Ku: GLFE 14001XX, 10-16 GHz
   - Ka-Band: GLFE 28000, 26-32 GHz
   - Q-Band: GLFE 45000, 38-50 GHz
   - Other Frequencies Available

2. **Power Level In for Rated Power**
   - -20 to -5 dBm (Extended Range Available)

3. **Power Level Out for Rated Power**
   - Available 5dBm to 15 dBm

4. **Output Backoff (From Single Carrier Rated Power)**
   - Minimum Carrier to Intermodulation (C/I) Ratio (with HPA)
     - 3 dB: >25 dB
     - >4 dB: > 30 dB

5. **Gain Flatness**
   - <+/- 0.5 dB Over Any 500 MHz

6. **Gain Slope**
   - <0.02 dB/MHz

7. **Gain Stability Over Temperature**
   - < ± 1 dB, -10 to 50 °C

8. **Static Phase Shift**
   - < ± 5 degrees to Rated Power (with HPA)

9. **Spurious/Noise**
   - < -132 dBW/4 KHz at Max Gain

10. **Input/Output VSWR**
    - < 1.35

11. **Power**
    - 12 Volts dc, <350 mA

12. **RF Interface**
    - 2 SMA Female Connectors

13. **DC Interface**
    - 15 Pin Male

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## Graph

**2-Tone CA Ku-Band SSPA & LSSPA**

Dependent on Frequency

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**Contact Information**

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