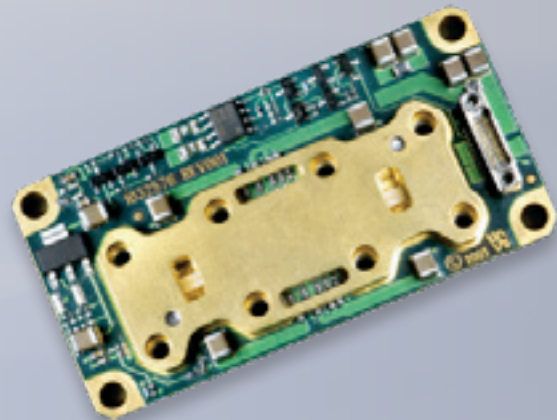


**Q-Band 42.5 – 46.0 GHz
HPA Series (Designed for
AEHF Satcom applications)**

- **3.5W Module**
- **30W SSPA**



FEATURES

Module

- 0.15um based GaAs power PHEMT MMIC technology
- High Linear Gain: 25 dB typical
- High PSAT: 35.4 dBm typical (3.5 Watts)
- High PAE: 22% typical
- Wide operating temperature range: -40°C to +85°C
- Input/Output VSWR < 2:1
- WR22 waveguide input and output
- Small Size: 2.475" x 1.250" x 0.315"
- Light-Weight: 4 oz.

SSPA

- High PSAT : > 45 dBm typical at ambient temperature
- Operating frequency range 43 – 46 GHz
- High Power Gain: 35 dB typical
- High Reliability MTBF > 100,000hr @ 44°C base plate temperature per MIL-HDBK-217F
- MIL-S-901D shock
- 95% condensing humidity
- Salt fog
- MIL-STD-461E
- TTL Transmit enable command
- Status and Health Telemetry
- WR22 waveguide input and output ports