Smaller, lighter and more powerful AntBUC® series allows significant high power BUC size and weight reduction and at the same time substantially improves thermal efficiency, which leads to higher reliability and longer MTBF. That’s why IRT offers 3 years warranty for this product line!

The IRT Technologies powered by GaN technology 150W / 200W C-Band AntBUC® series are very compact, light and extremely powerful. Weighing at only 22 lbs, this new C-band 150W / 200W AntBUC® product family is the most powerful and feature rich for its size: up to 200W at saturated power. IRT AntBUC® features best in class RF characteristics, RF sample port, true RMS power measurements, extensive monitor and control capabilities enabled via Ethernet, Serial and/or Analog Interfaces.

AntBUC® remarkably compact size and high thermal efficiency results in overall system size and cost reduction making it the ideal candidate for mobile and fixed VSAT applications.

**KEY FEATURES**

- Up to 200W Psat
- Superior RF performance
- RF Overdrive Protection
- Available in various C-Band frequency options
- Field upgradable software
- Internal 10MHz reference optional
- Input and Output True RMS Power Detection
- Configuration via RS-232 serial console, packet protocol RS-485 - User friendly HTTP based GUI and SNMP
- Automated Level Control (ALC) Option
- Redundant ready - no external redundancy controller required
- 48VDC isolated power supply option
- Status LED

**RF PERFORMANCE (1/2)**

| RF Freq. Range-Available in/switched | 5.85-6.425GHz (other frequency options available) |
| IF Frequency Range | 950-1525MHz |
| LO Frequency Conversion | 4.9 GHz Single Conversion; non-inverting |
| Saturated Power | 150W 200W |
| Linear power | 52dBm typ 53dBm typ |
| Conversion Gain | 49dBm min 50dBm min |
| Gain Flatness | 75dB min, 77dB typ +/-1dB typ +/-15dB max over full band |
| Gain Stability over temperature | +/-0.5dB max over any 40MHz |
| Gain Stability over input power | 3dB typ 4dB max from 10dB back off to rated power |
| Gain Control | +/-1.5dB 20dB min dynamic range |
| External Reference Frequency | 10MHz multiplexed with IF In |
| External Reference Required | -130dBc/Hz @ 100Hz |
| Phase Noise | -140dBc/Hz @ 1kHz |
| Up-Converter Phase Noise | -150dBc/Hz @ 10kHz |
| -155dBc/Hz @ 100 kHz |
| Noise Power Density | -68dBc/Hz @ 100Hz; -80dBc/Hz @ 1kHz; -90dBc/Hz @ 10kHz; -95dBc/Hz @ 100kHz; -115dBc/Hz @ 1MHz |

**RF PERFORMANCE (2/2)**

- Linearity: -25dBc at P linear
- 2 tone IMD Spectral Re-growth: -30dBc for QPSK at 1.5x symbol rate at Plinear+1dB
- Noise Power Density: Transmit Band -85dBm/Hz max Receive Band -150dBm/Hz max
- Output Spurious: Non-signal related -60dBc Signal related -55dBc

**POWER**

- AC Voltage Range: 90-265VAC 50-60Hz auto-ranging PFC
- 150W: 850W 1000W 1500W 2000W
- Power Consumption at rated power: 850W 1000W 1500W 2000W
- Power Consumption 3 dB back off: 650W 750W 1100W 1350W
- 48VDC Isolated optional: 40-72VDC isolated

**MECHANICAL**

- Size: 15.375” x 8.750” x 4.250” (18.625” x 8.750” x 4.250” with output circulator)
- Weight: 26lbs
- Cooling: Forced Air
- Operating Temperature: +40 C to +55 C
- Relative humidity: Up to 100% condensing

**INTERFACES**

- IF Input Connector: N-type female
- RF Output Connector: CPR137 Grooved
- RF Sample: N-type female
- AC Power In: MS312E12-3P
- M&C Interface: Serial, Analog, Ethernet
- Redundant Interface: MS312E14-19S MS312E14-19P

**PART NUMBERING INFORMATION**

- AC Power Supply: 150W : TPB-CB00520-HMS0 200W : TPB-CB00530-HMS0