

AntBUC® SUPER HIGH POWER DENSITY 150W / 200W C-BAND GAN BUC / SSPA

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	4.9 GHz
Conversion	Single Conversion; non-inverting
	150W 200W
Saturated Power	52dBm typ 53dBm typ
Linear power	49dBm min 50dBm min
Conversion Gain	75dB min, 77dB typ
Gain Flatness	+/-1dB typ +/-1.5dB max over full band; +/-0.5dB max over any 40MHz
Gain Stability over temperature	+/-1.5dB
Gain Stability over input power	3dB typ 4dB max from 10dB back off to rated power
Gain Control	20dB min dynamic range
External Reference Frequency	10MHz multiplexed with IF In
External Reference Required	-130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -155dBc/Hz @ 100 kHz
Phase Noise	
Up-Converter Phase Noise	-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 200W
Power Consumption at rated power	850W 1000W
Power Consumption 3 dB back off	650W 750W
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	MS3112E12-3P
M&C Interface-Serial, Analog, Ethernet	MS3112E14-19S
Redundant Interface	MS3112E14-19P

PART NUMBERING INFORMATION

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