

800W C-Band GaN SSPA/SSPB

The new **Genesis-Series** of C-band SSPA/SSPBs from Advantech Wireless Technologies epitomizes the latest in hardware and software technologies, making it the most feature-rich satcom SSPA in the industry. Available in 800W C-band, the Genesis-Series SSPA/SSPB delivers the high-end features discriminating users have come to expect.



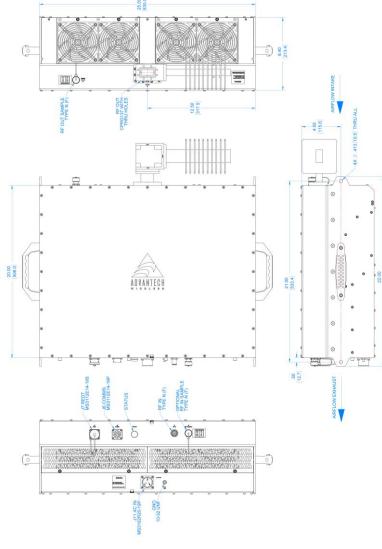
800W C-Band SSPB

Features

- 800W in a single package
- SSPA or SSPB option
- Soft-fail ready
- Internal/External reference with autosense
- Redundant ready with no external controller
- Full featured embedded web server
- Secure SNMPv3 interface (10/100 Ethernet)
- Serial Protocol over RS232/RS485/UDP
- Discrete Alarm Interface
- Status LED indicator
- Forward power monitoring
- True RMS power detection
- Calibrated Output RF sample port
- Field replaceable fan assembly
- Weatherproof construction
- 20dB gain adjustment (minimum)

Options

- 1:1, 1:2, N+1 redundant configurations
- Calibrated Input RF sample port



(EN 61000-4, EN 61000-3, EN 55011, EN 61010-1)



W008 C-Band GaN SSPA/SSPB

General Specifications					
800W					
SSPA					
On another Fundament	Standard: 5.85 - 6.425 GHz				
Operating Frequency	Extended: 5.85 - 6.725 GHz				
Output Power PLINEAR	+56dBm				
P _{LINEAR} is the power at which the IMD=-25 dBc for two CW signals 5 MHz apart and the spectral regrowth is <-30 dBc @ 1.0 x symbol rate tested with a single					
QPSK, 2MS/s SR, 0.35 roll-off					
Gain (with 0dB attenuation)	75 dB				
Gain adjustment range	20 dB in 0.1 dB steps				
Gain flatness over full band	2dB p-p max (SSPA only)				
Gain slope over 40 MHz	± 0.3 dB max (SSPA only)				
Gain variation over	± 1.5 dB max				
temperature					
Input Impedance and VSWR	50 Ω 1.3:1 (SSPA only)				
Output VSWR	1.3:1				
Signal Related Spurious at	-65 dBc max (SSPA only)				
PLINEAR 1					
Harmonics	-50 dBc @ P _{LINEAR}				
AM/PM conversion	<1°/dB P _{LINEAR}				
Third order IMD (two tones)	-25 dBc two signal 5 MHz apart at P _{LINEAR}				
Group delay	Ripple 1 nsec p-p max over any 40 MHz band				
SSPB (BUC)					
L-Band input (BUC)	Standard: 950-1525 MHz				
	Extended: 950 - 1825 MHz				
Gain flatness over full band	4dB p-p max (SSPB only)				
Gain slope over 40 MHz	± 0.5 dB max (SSPB only)				
Input Impedance and VSWR	50 Ω 1.5:1 (SSPB only)				
Signal Related Spurious at	-55 dBc max (SSPB only)				
PLINEAR 1					
Local Oscillator freq.	4.9 GHz				
Internal Reference frequency	Aging/day: ±1 x 10 ⁻⁹				
	Aging/year: ±10 x 10 -8				
	Stability: ±1 x 10 -7 over temp range				
Max Phase Noise	-37 dBc/Hz at 10Hz -77 dBc/Hz at 1 kHz -97 dBc/Hz at 100 kHz				
5	-67 dBc/Hz at 100Hz -87 dBc/Hz at 10 kHz -107 dBc/Hz at 1 MHz				
External Reference	10 MHz				
Input Power	-5dBm to +5dBm				
Frequency phase noise (max)	-120 dBc/Hz at 10Hz -155 dBc/Hz at 1 kHz -165 dBc/Hz at 100 kHz				
	-140 dBc/Hz at 100Hz -160 dBc/Hz at 10 kHz				

Mechanical, Environmental, Power						
Dimensions	L x W x H: 20" x 25" x 8.4" (508 x 635 x 213.36 mm)					
Weight	96 lbs. (43.5 kg)					
AC input voltage	190 – 265 VAC (47-63 Hz)					
	0.95 Power Factor @	220VAC				
Power consumption at P _{Linear}	3400W					
	Input (RF or L-Band)	: N type female	AC line:	MS3102 type (See outline for details)		
Interfaces	Output Sample Port	: N type female	RF output:	CPRG137		
	Interface Port:	MS3112 type (See outline for details)				
	IP65 Compliance					
	Temperature:	Operating: -40°C to +55 °C				
Environmental		Storage: -55°C to +85 °C				
	Humidity:	100% condensing				
	Altitude:	10,000' AMSL, de-rated by 2 °C/1000> fr	om AMSL			

Note: specifications subject to change without notice.

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