

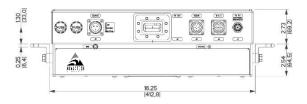
Cascade-X Line X-Band GaN SSPA BUC

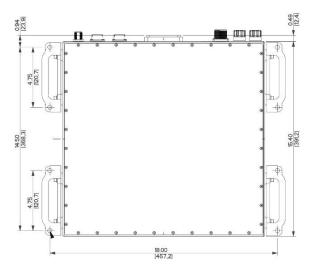
Overview

An ideal solution for both mobile and fixed Communication terminals. The Cascade-X Line SSPAs / BUCs are designed for high efficiency resulting in an optimal compact form factor with high performance and reliability. With the advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC and the System Redundancy.

• X-Band: 300W / 400W / 500W







Features

- Compact size
- Available in AC
- Up to 500W of RF Output Power
- Up to 250W of Linear Power
- Built-in monitoring of critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- IP55 rated housing and fan (weather proof construction)
- M&C Interfaces included: RS485, RS232, Ethernet and dry-contacts
- WEB interface and SNMP monitoring
- Redundant Ready
- 1:1 and 1:2 built into the BUC eliminating external controller
- Other frequency ranges available
- Optional 10MHz reference
- Optional output sample port
- Optional Remote control unit



Cascade-X Line GaN SSPA BUC

Technical Specifications							
		X-Band					
Electrical Characteristics	300W			400W		500W	
RF Output at P Sat	55 dBm	1		56 dBm		57 dBm	
RF Output at P Lin	52 dBm	52 dBm		53 dBm		54 dBm	
Output Frequency Range	7.9 – 8.4 GHz						
Input Frequency Range	950 – 1450 MHz						
Local Oscillator Frequency	6.95 GHz						
Gain Stability Over Temperature	± 1.5 dB nominal						
Gain Variation at fixed temperature	± 0.5 dB over max over 40 MHz; ± 2.0 dB over full band						
Linear Gain	70 dB min.						
User Adjustable Gain	20 dB in 0.5 dB steps						
Spectral Re-growth	-30dBc @PLinear						
Third order IMD (2 equal tones 5MHz apart)	-25 dBc, with 2 equal carriers (5MHz spacing) at 3dB total power back off from rated power (P Sat -3dB)						
10MHz Reference	0dBm ± 5.0 dB - External via IF / (Internal 10MHz reference optional)						
	@ 100 Hz	@ 1 KHz		@ 10 KHz	@ 100 KHz	@ 1 MHz	
Ref Phase Noise Requirement		-140 dBc/Hz r	nax	-150 dBc/Hz max	-155 dBc/Hz ma	ах	
Local Oscillator Phase Noise	-63 dBc/Hz max	-73 dBc/Hz n	nax	-83 dBc/Hz max	-93 dBc/Hz ma	ax -103 dBc/Hz max	
Output Spurious	-60dBc max @PLinear						
Harmonics	-60dBc max @PLinear						
AM/PM	< 2deg/dB at PLin						
VSWR	Input (1:50:1) Output (1.30:1)						
Power consumption							
X-Band	300W		400W		500W		
Power consumption (at rated power) AC version	2100W		2300W		2500W		
Power requirement				220 VAC			
Interface Output Interface		\	Navegu	ide, CPR 112G (Groo	ved)		
Input Interface	N-Type Female, 50 Ohms						
Connectors	AC Connector: MS3102R16-10P		M&C: MS3112E14-19P		Redundancy: MS3112E14-15P (Optional)		
Mechanical						7 - 1	
Dimensions (L x W x H)	16.0 x 16.9 x 5.2 / 41.0 x 43.0 x 13.2						
Weight				45 / 20.4			
Environmental							
	Temperature Range (ambien -40°C to + 55°C (operating) -40°C to + 75°C (storage)			Humidity 0 to 100% (conde	ensing)	Altitude 10,000 ft ASL	

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