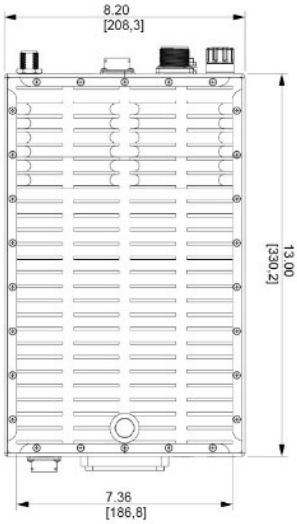
Denali-Line

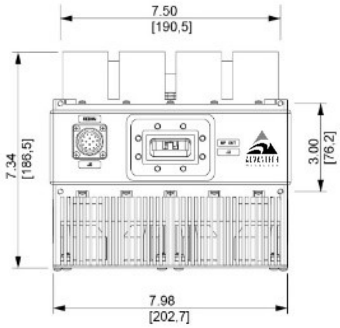
X Band GaAs SSPA BUC

Overview

An ideal solution for both mobile and fixed Communication terminals. The Denali-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 GaAs: 100W / 125W





Features

- Compact size
- 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
- 1:1 and 1:2 Redundant Ready built into the BUC eliminating external controller
- Other frequency ranges available
- Internal/External 10MHz reference with Auto-sensing
- Optional Remote control unit

Denali-Line X-Band GaAs SSPA BUC

Technical Specifications

X-Band					
Electrical Characteristics	**100W**			**125W**	
RF Output at Psat	50 dBm			51 dBm	
RF Output at P1dB	49 dBm			50 dBm	
RF Output at P Lin	46 dBm			47 dBm	
Output Frequency Range	7.9 – 8.4 GHz				
Input Frequency Range	950 – 1450 MHz				
Local Oscillator Frequency	6.95 GHz				
Linear Gain	70 dB min.				
Gain Flatness	4dB p-p max.				
Gain Slope	1dB p-p max. over 40MHz				
Gain Stability Over Temperature	± 1.5 dB max.				
User Adjustable Gain	20 dB in 0.5 dB steps				
Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart)	- 25dBc at P Lin (MIL-STD-188-164B)				
10MHz Reference	0dBm ± 5.0 dB - External via IF				
	@ 100 Hz	**@ 1 KHz**	**@ 10 KHz**	**@ 100 KHz**	**@ 1 MHz**
Ref Phase Noise Requirement		-140 dBc/Hz max	-150 dBc/Hz max	-155 dBc/Hz max	
Local Oscillator Phase Noise	-63 dBc/Hz max	-73 dBc/Hz max	-83 dBc/Hz max	-93 dBc/Hz max	-103 dBc/Hz max
Output Spurious	-60dBc max @PLinear				
Harmonics	-60dBc max @PLinear				
Noise Power Density	-70dBm/Hz in Tx band				
AM/PM	< 2deg/dB at PLin				
VSWR	Input (1:50:1) Output (1.30:1)				
Power consumption					
X-Band	**100W**			**125W**	
Power consumption (Watts)	725W			800W	
Power requirement	110/220 VAC				
Interface					
Output Interface	Waveguide, CPR 112G (Grooved)				
Input Interface	N-Type Female, 50 Ohms				
Connectors	AC Connector: MS3102R16-10P		M&C: MS3112E14-19P		Redundancy: MS3112E14-15P
Mechanical					
Cooling	Forced Air				
Dimensions (L x W x H)	13 x 8.2 x 6.3 in / 33.02 x 20.83 x 16 cm				
Weight	27.8 lbs / 12.5 kg				
Environmental					
	Temperature Range (ambient)		**Humidity**		**Altitude**
	-40ºC to + 55ºC (operating) -40ºC to + 75ºC (storage)		0 to 100% (condensing)		10,000 ft ASL

Ref.: PB-AWT-DML-GaAs-X-22317

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