

Pamir-Line

X Band GaAs SSPA BUC

Overview

The Pamir-Line are hub-mount up-converter transmitters operating in X-Band. The Pamir-Line Compact BUC is built for stabilized platforms and mobile stations, while also offering benefits for fixed site and offshore applications. Weighing less than 8 lbs., makes it ideal for feed mounting.

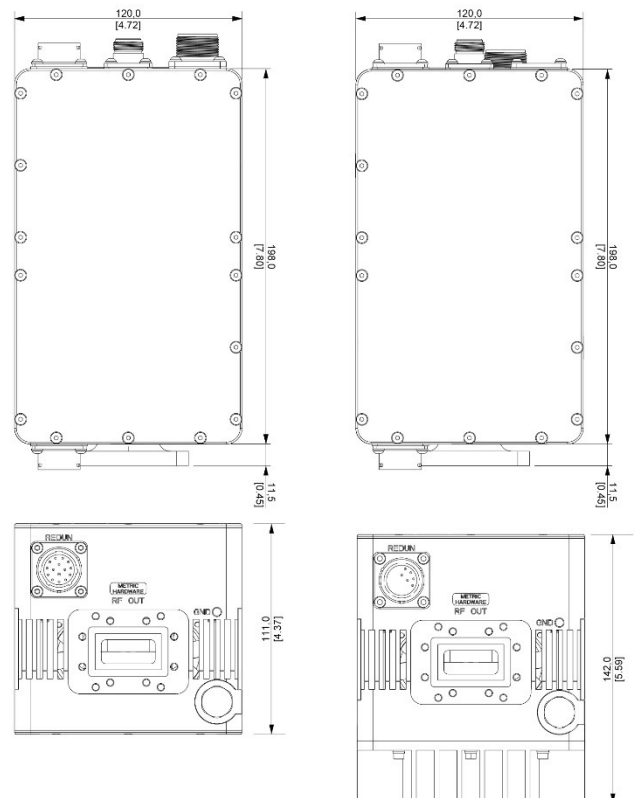
- X-Band GaAs: 25W / 30W / 50W / 60W



With AC module

Features

- Extremely compact size
- Available in AC or DC
- Up to 60W of RF Output power
- Up to 30W of Linear power
- Built-in monitoring of critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- IP67 rated housing and fan (weather proof construction)
- M&C Interfaces included: RS485, RS232, Ethernet and dry-contacts
- WEB interface and SNMP monitoring
- Optional 1:1 and 1:2 built into the BUC eliminating external controller
- Other frequency ranges available
- Optional Remote control unit



With AC module



Pamir-Line GaAs SSPA BUC

Technical Specifications					
X-Band					
Electrical Characteristics	25W	30W	50W	60W	
RF Output at Psat	44 dBm	45 dBm	47 dBm	48 dBm	
RF Output at P1dB	43 dBm	44 dBm	46 dBm	47 dBm	
RF Output at P Lin	40 dBm	41 dBm	43 dBm	44 dBm	
Output Frequency Range	7.9 – 8.4 GHz				
Input Frequency Range	950 – 1450 MHz				
Local Oscillator Frequency	6.95 GHz				
Gain Stability Over Temp.	± 2.0 dB max				
Gain Variation at fixed temp	± 2.0 dB over full band; ± 0.5 dB over 40 MHz				
Linear Gain	60 dB nominal				
Gain Control	20 dB nominal in 0.5 dB steps				
Output VSWR	1.50:1				
Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart) 10MHz Reference	- 25dBc at Plin (MIL-STD-188-164B) 0 dBm ± 5.0 dB				
	@ 100 Hz	@ 1 KHz	@ 10 KHz	@ 100 KHz	@ 1 MHz
10 MHz Phase Noise Requirement	-130 dBc/Hz max	-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	-60 dBc max @PLinear				
Harmonics	-60dBc max @PLinear				
AM/PM	< 2deg/dB at PLin				
Input Impedance	50 Ohms				
Input VSWR	1.50:1				
Power consumption (at rated power) AC version					
	X-Band	150W	175W	200W	250W
Power requirement	+36 to +72 VDC or optional 120/220 AC				
Interface					
Output Interface	Waveguide, CPR 112G (Grooved)				
Input Interface	N-Type Female, 50 Ohms				
Connectors	DC Connector: MS3102R14S-9P AC Connector: MS3102R14S-7P		M&C: MS3112E1419P	Redundancy: MS3112E14-15P	
Mechanical					
Cooling	Forced Air				
Dimensions (L x W x H)	DC Model: 7.8 x 4.72 x 4.37 in (198 x 120 x 111 mm)		AC Model: 7.8 x 4.72 x 5.59 in (198 x 120 x 142 mm)		
Weight	DC Model: 8 lbs (3.65 kg)		AC Model: 9 lbs (4.1 kg)		
Environmental					
Temperature Range (ambient)		Humidity		Altitude	
-40°C to + 55°C (operating) -40°C to + 75°C (storage)		0 to 100% (condensing)		10,000 ft ASL	

Ref.: PB-AWT-PML-GaAs-X-22211

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