

Pamir-X 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.

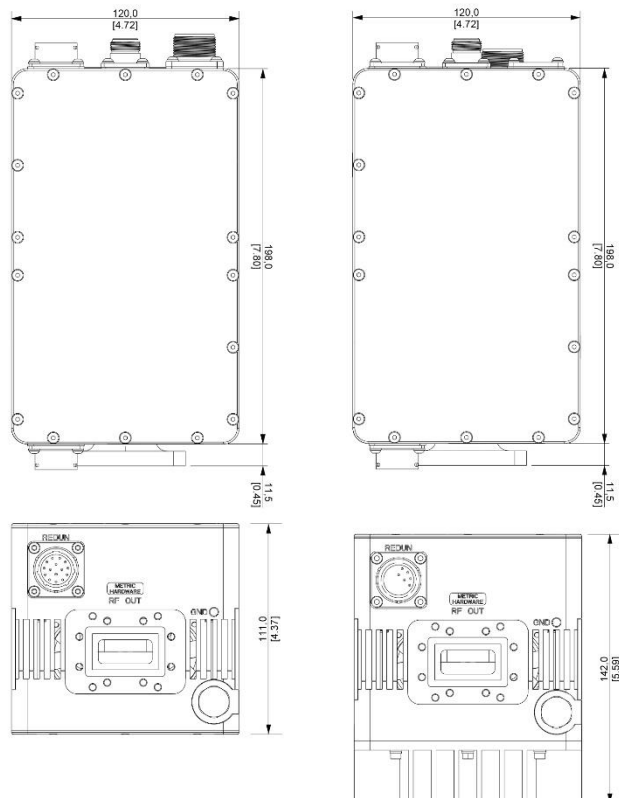
- X-Band GaAs: 20W / 25W / 40W / 50W / 60W



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



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Technical Specifications						
X-Band						
Electrical Characteristics	20W	25W	40W	50W	60W	
RF Output at P1dB	43 dBm	44 dBm	46 dBm	47 dBm	48 dBm	
RF Output at P Lin	40 dBm	41 dBm	43 dBm	44 dBm	45 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)	-25 dBc, with 2 equal carriers (5MHz spacing) at 3dB total power back off from rated power (P Sat -3dB)					
10MHz Reference	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	275W
Power requirement	120/220 AC or +36 to +72 VDC					
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 (Optional)		
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-19289-1

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