

X-BAND SSPB 200W 7.9-8.4 GHZ SOLID STATE POWER BUC

High-power X-band SSPB 200W solid state power BUC, 7.9–8.4 GHz, 70 dB gain, low phase noise, GaN design with forced-air cooling. Ideal for X-band satcom, MilSatCom, and broadcast uplinks. Psat 53 dBm, LO 6.95 GHz, IF 950–1450 MHz.

RF Characteristics		
Power	200 W	
RF Output at Psat	53 dBm	
RF Output at Plin	50 dBm	
Output Frequency Range	7.9–8.4 GHz	
Input Frequency Range	950–1450 MHz	
Local Oscillator Frequency	6.95 GHz	
Output Spurious	-55 dBc max	
Spectral Re-growth	-30 dBc @ Plinear	
Third order IMD	-25 dBc	
Gain & Linearity		
Linear Gain	70 dB Nominal	
Gain Control	20 dB in 0.1 dB steps	

Gain Stability Over	±2.0 dB max	
Gain Variation at fixed temp	±2.0 dB over full band; ±0.5 dB over 40 MHz	
Reference & Phase Noise		
10 MHz Reference	0 dBm ±5 dB	
Phase Noise	-83 dBc/Hz @10 kHz; -93 dBc/Hz @100 kHz	
Interfaces		
Input Impedance	50 Ohms	
Output VSWR	1.50:1	
RF Output Interface	CPR 112G (Grooved)	
IF Input	N-Type Female, 50 Ohms	
Connectors	DC: MS3102R14S-9P; AC: MS3102R14S-7P; M&C: MS3112E1419P; Redundancy: MS3112E14-19S (Optional)	
Power & Cooling		
Power Consumption	100 W	
Cooling	Forced Air	
Mechanical		
Dimensions (L×W×H)	187 × 197 × 317 mm	
Weight	13.6 kg	
Environmental		

Operating Temperature	-40+55 °C
Storage Temperature	-40+75 °C
Humidity	0–100% (condensing)
Altitude	10,000 ft ASL

Taking into consideration that we (UMT LLC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.