



C-BAND SSPB 100W 5.85-6.425 GHZ SOLID STATE POWER BUC

High power C-band SSPB 100W, out freq. 5.85-6.425 GHz, 70 dB gain, low phase noise, linear design with forced air cooling. Ideal for VSAT hubs, gateways and broadcast satcom. Psat 51.7 dBm, LO 4.90 GHz, IF range 975-1525 MHz

RF Characteristics	
Power	100 W
RF Output at Psat	51.7 dBm
RF Output at Plin	48.7 dBm
Frequency Band	Regular C
Output Frequency Range	5.85–6.425 GHz
Input Frequency Range	975–1525 MHz
Local Oscillator Frequency	4.90 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 Temp	±2.0 dB max

Gain Variation at fixed temp	± 2.0 dB over full band; ± 0.5 dB over 40 MHz
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Reference & Phase Noise

10 MHz Reference	0 dBm ± 5 dB
Phase Noise	-63 dBc/Hz @100 Hz; -73 dBc/Hz @1 kHz

Interfaces

Input Impedance	50 Ohms
Output VSWR	1.50:1
RF Output Interface	CPR 137G (Grooved)
IF Input	N-Type Female, 50 Ohms
Connectors	DC: MS3102R14S-9P; AC: MS3102R14S-7P; M&C: MS3112E1419P; Redundancy: MS3112E14-19S (Optional)

Power

Power Consumption (AC)	750 W
Cooling	Forced Air

Mechanical

Dimensions (LxWxH)	187 x 197 x 317 mm
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Weight	13.6 kg
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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.