# KU-BAND SSPB 250 W SOLID STATE POWER BUC (12.75–13.25 GHZ)

Ku-band SSPB 250 W solid-state power BUC covering 12.75–13.25 GHz with 75 dB gain and low phase noise.GaN-based outdoor amplifier for Lower Ku-band VSAT, teleports and broadcast uplinks. Psat 53 dBm, LO 11.80 GHz, IF 950–1450 MHz.

| RF Characteristics | |
|---|---|
| Power | 250 W |
| RF Output at Psat | 53 dBm |
| RF Output at Plin | 50 dBm |
| Output Frequency Range | 12.75–13.25 GHz (Lower Ku) |
| Input Frequency Range | 950–1450 MHz |
| Local Oscillator Frequency | 11.80 GHz |
| Output Spurious | -55 dBc max |
| Spectral Re-growth | -30 dBc @ Plinear |
| Third order IMD | -25 dBc (two carriers, 3 dB backoff) |
| **Gain & Linearity** | |
| Linear Gain | 75 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 |
| **Reference & Phase Noise** | |
| 10 MHz Reference | 0 dBm ±5 dB |
| Phase Noise | -63 @100 Hz; -73 @1 kHz; -83 @10 kHz |
| **Interfaces** | |
| Input Impedance | 50 Ohms |
| Output VSWR | 1.50:1 |
| RF Output Interface | WR75G (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 (AC) | 1200 W |
| Cooling | Forced Air |
| **Mechanical** | |
| Dimensions (L×W×H) | 139 × 298 × 489 mm |
| Weight | 26 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.