# C-BAND SSPB 100W 5.725-6.425 GHZ SOLID STATE POWER BUC

High power C-band SSPB 100W, out freq. 5.725-6.425 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 4.75 GHz, IF range 975-1675 MHz

| RF Characteristics | |
|---|---|
| Power | 100 W |
| RF Output at Psat | 51.7 dBm |
| RF Output at Plin | 48.7 dBm |
| Frequency Band | Lower C |
| Output Frequency Range | 5.725–6.425 GHz |
| Input Frequency Range | 975–1675 MHz |
| Local Oscillator Frequency | 4.75 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 |

| Reference & Phase Noise | |
|---|---|
| 10 MHz Reference | 0 dBm ±5 dB |
| Phase Noise | -63 dBc/Hz @100 Hz;<br>-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;<br>AC: MS3102R14S-7P;<br>M&C: MS3112E1419P;<br>Redundancy: MS3112E14-19S (Optional) |

| Power | |
|---|---|
| Power Consumption (AC) | 750 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.