



GeoSat
Microwave

- High Output, Low Power Consumption
- GAN HEMTs results in best in class MTBF
- Outdoor, Compact, Lightweight Design
- Designed to Meet ETSI & FCC Standards
- RoHS Compliant
- 3 Year GeoSat Product Warranty



3W Ku-Band Block Up-Converter (BUC)

Model: GB34SKU1N



| Section | Item | Specification | |
|-----------------------------|--|---|---------------|
| Power Requirement | Voltage | +18 to +36 VDC (+24 VDC nominal), +48 VDC (Optional) | |
| | Power Consumption | 50 W @Rated Output Power / 40 W @Linear Output Power | |
| Input Characteristics | Frequency Range | 950 - 1950 MHz, 1000 - 2000 MHz (Optional) 950 - 1450 MHz | |
| | RF Connector / VSWR | Type N Female / 1.5: 1 | |
| Output Characteristics | Frequency Range | 29 - 30 GHz, 30 - 31 GHz, 29.5 - 30 GHz | |
| | Saturated / Rated / Linear Power | ≥34.8 dBm / 34.8 dBm / 31.8 dBm | |
| | Output Spurious | -55 dBc (Max) | |
| | RF Connector / VSWR | WR28-G (Grooved) / 1.25: 1 | |
| Transfer Characteristics | External Reference Frequency | 10 MHz, 0 ± 5 dBm | |
| | Gain Variation | 1 dB p-p/36 MHz, 3 dB p-p/500 MHz, 4 dB p-p/1000 MHz | |
| | Gain Stability | ±1.5 dB | |
| | Gain Adjustment Range | 20 dB (Step: 1 dB) | |
| | Small Signal Gain | 65 dB(Nominal) | |
| | IMD3 at Linear Output Power | -25 dBc | |
| | Phase Noise ▼ | 100Hz | < -60dBc / Hz |
| | | 1kHz | < -70dBc / Hz |
| 10kHz | | < -80dBc / Hz | |
| 100kHz | | < -90dBc / Hz | |
| Power Supply Connector | ACS02E10SL-4P | | |
| Monitor & Control Connector | PT02E-12-10P, RS-485 & RS-232 / Ethernet & RS-232 (Optional) | | |
| LED Indicators | Red and Yellow | | |
| Mechanical | Dimension (mm) | 206*136*88 mm | |
| | Weight | ≤3.5 Kg | |
| | Humidity / Altitude | 0 - 100% (Condensing) / 0 - 3000 m ASL | |
| Operating Temperature | | -40 to +70 °C | |