



- Dual bands are switchable
- Low power consumption
- Higher reliability from integrated design principle
- Compact size and light weight
- Meet ETSI, FCC standards

GeoSat 20W Ka-Band Block Up-Converter (BUC)

Model: GB20KA62N



| Section | Item | Specification |
|---------------------------------------|--|---|
| Power Requirement | RF Frequency | 28.172-29.071 GHz |
| | IF Frequency | 1052-1788 MHz |
| Input Characteristics | External Reference | 10 MHz, 0±5 dBm |
| | Saturated Output Power | ≥43 dBm |
| | Rated Output Power | 43 dBm |
| | Linear Output Power | 40 dBm |
| | IMD3 @3dB back-off from Rated Output Power | ≤ -25 dBc |
| Output Characteristics | Small Signal Gain | 67 dB |
| | Gain Variation | 1 dB p-p/ 36 MHz 4 dB p-p/ full band |
| | Gain Stability | ±2 dB |
| | Gain Adjustment Range | 20 dB (Step: 0.1 dB) |
| Transfer Characteristics | Phase Noise (IES-308/309) | -63 dBc/Hz @100 Hz |
| | | -73 dBc/Hz @1 KHz |
| | | -83 dBc/Hz @10 KHz |
| | | -93 dBc/Hz @100 KHz |
| | Output Spurious | -60 dBc (max) |
| Power Supply | +36 to +72 VDC | |
| Power Supply Draw @Rated Output Power | 180W | |

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| Section | Item | Specification |
|---------|--|--|
| | Power Supply Draw @Linear Output Power | 120 W |
| | RF Output Connector | WR28-G (Grooved) |
| | RF Output VSWR | 1.25:1 |
| | IF Input Connector | N-Type Female |
| | IF Input VSWR | 1.5:1 |
| | Power Supply Connector | ACS02E10SL-4P |
| | M & C Connector | PT02E-12-14P RS-485, RS-232 & Ethernet (Telnet) |
| | LED Indicators | LEDs off: Equipment functioning properly Yellow: PLL unlock alarm |
| | Size | 206*136*88 mm |
| | Weight | 3.5 Kg |
| | Operating Temperature | -40 to +60 °C |
| | Humidity | 0-100% (Condensing) |
| | Altitude | 0-10000 F ASL |