



GeosSat
Microwave

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



Block Up-Converter C-Band 5W (BUC)

Model: GB5C1N

| Section | Item | Specification | |
|-------------------|-------------------------------------------|-------------------------------|-------------------------------------|
| RF Specifications | RF Frequency | 5.850-6.425 GHz | |
| | IF Frequency | 950-1525 MHz | |
| | External Reference | 10 MHz, 0±5 dBm | |
| | Saturated Output Power | ≥37 dBm | |
| | Rated Output Power | 37 dBm | |
| | ACPR@2dB back-off from Rated Power | ≤ -26 dBc | |
| | Small Signal Gain | 60 dB | |
| | Gain Variation | | 1 dB p-p/ 36 MHz |
| | | | 4 dB p-p/ 575 MHz |
| | | | 5 dB p-p/ 875 MHz |
| | Gain Stability | 4 dB p-p | |
| | Receive Band Noise Density | | -87 dBm/ 4 KHz max. @3.4-4.8 GHz |
| | | Phase Noise | |
| | | | -75 dBc/Hz @1 KHz |
| | -85 dBc/Hz @10 KHz -95 dBc/Hz @100 KHz | | |
| Output Spurious | | ≤ -55 dBc | |
| Power Supply | Power Supply | +18 to +36 VDC, via IFL cable | |
| | Power Supply Draw | | |
| | @Rated Output Power | 45 W | |
| Interface | RF Output Connector | WR137 (Grooved) | |
| | RF Output VSWR | 2:1 | |
| | IF Input Connector | F-Type Female | |
| | IF Input VSWR | 2:1 | |

Continued on the next page ▼

| Section | Item | Specification |
|-------------------------|-----------------------|---------------------------|
| Physical Parameters | Size | 164*112*64 mm |
| | Weight | 1.2 Kg |
| | Operating Temperature | -40 to +60 °C |
| | Humidity | 0-100% (Condensing) |
| | Altitude | 0-10000 F ASL |
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Mechanical Diagram (Unit: inch (mm))

