



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 DBS-Band 20W Extended (BUC)

Model: GB20DBS2N

| Section | Item | Specification | |
|-----------------------|---|----------------------|----------------------|
| RF Specifications | RF Frequency | 18.1-18.4 GHz | |
| | IF Frequency | 1150-1450 MHz | |
| | External Reference | | 10 MHz, 0±5 dBm |
| | | | -140 dBc/Hz @ 100 Hz |
| | | | -150 dBc/Hz @ 1 KHz |
| | | | -155 dBc/Hz @ 10 KHz |
| | Saturated Output Power | ≥ +43 dBm | |
| | Rated Output Power | +43 dBm | |
| | IMD3 @ 3dB back-off from Rated Output Power | -25 dBc | |
| | Small Signal Gain | 70 dB | |
| | Gain Variation | | 0.25 dB p-p/ 1 MHz |
| | | | 3 dB p-p/ 300 MHz |
| | Gain Stability | | 4 dB p-p/ 800 MHz |
| | | | ±1.5 dB |
| Gain Adjustment Range | | 20 dB (Step: 0.1 dB) | |
| | | -72 dBc/Hz @ 100 Hz | |
| Phase Noise | | -82 dBc/Hz @ 1 KHz | |
| | | -87 dBc/Hz @ 10 KHz | |
| | | -92 dBc/Hz @ 100 KHz | |
| Output Spurious | | -60 dBc | |
| | | | |
| | | | |
| Power Supply | Power Supply | +36 to +72 VDC | |
| | Power Supply Draw | 100 W | |
| | @Rated Output Power | | |
| Interface | RF Output Connector | WR62-G (Grooved) | |
| | RF Output VSWR | 1.25:1 | |

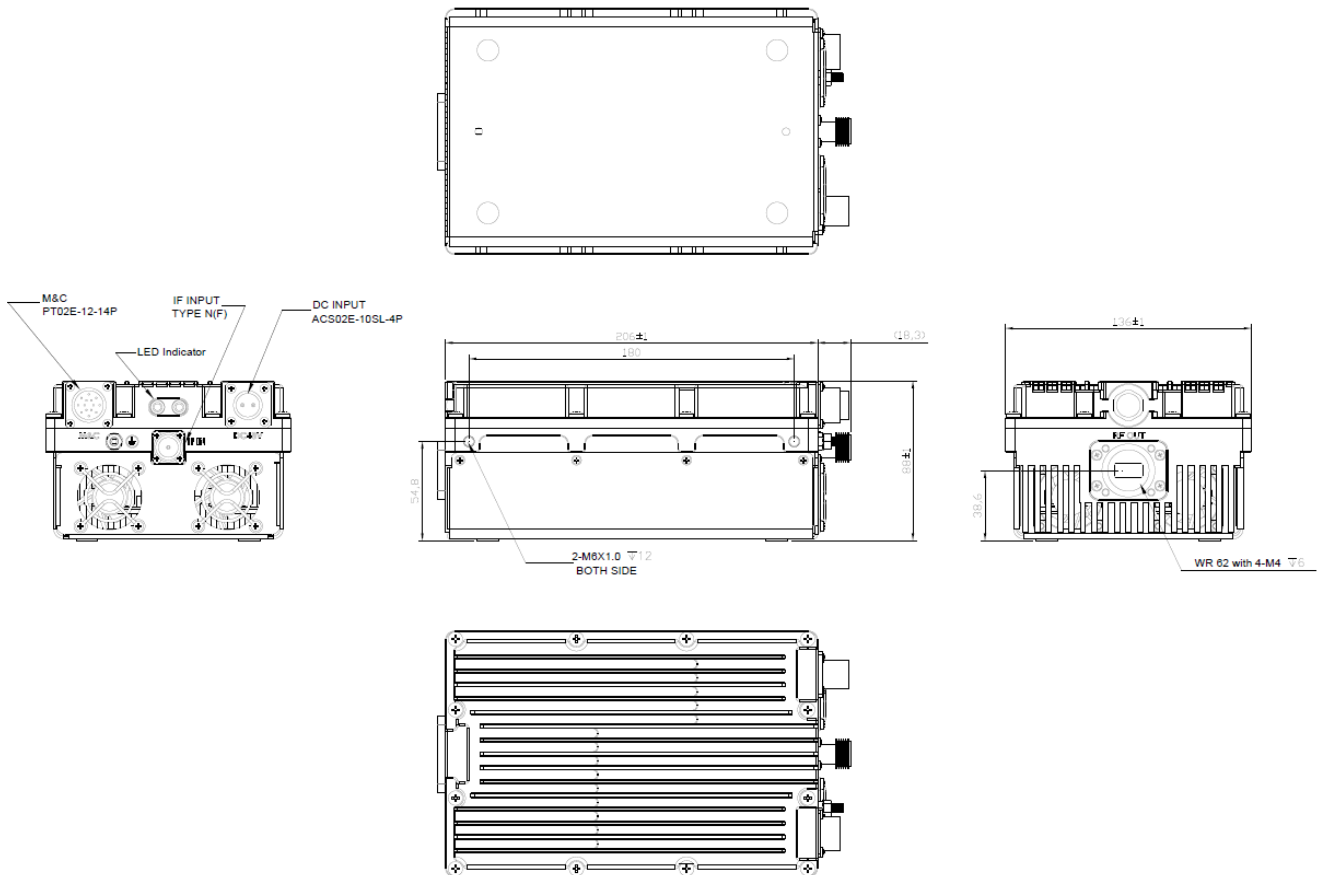
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| Section | Item | Specification |
|---------------------|-------------------------------|---|
| | IF Input Connector | N-Type Female |
| | IF Input VSWR | 1.5:1 |
| | Power Supply Connector | ACS02E10SL-4P |
| | Monitor and Control Connector | PT02E-12-14P, RS-485,RS-232 & Ethernet (Telnet) |
| | LED Indicators | LEDs off: BUC functioning properly Yellow LED on: PLL unlock alarm |
| Physical Parameters | Size | 206*136*88 mm |
| | Weight | 3.3 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))



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