

12-30 W Compact C-BAND Booster Brick

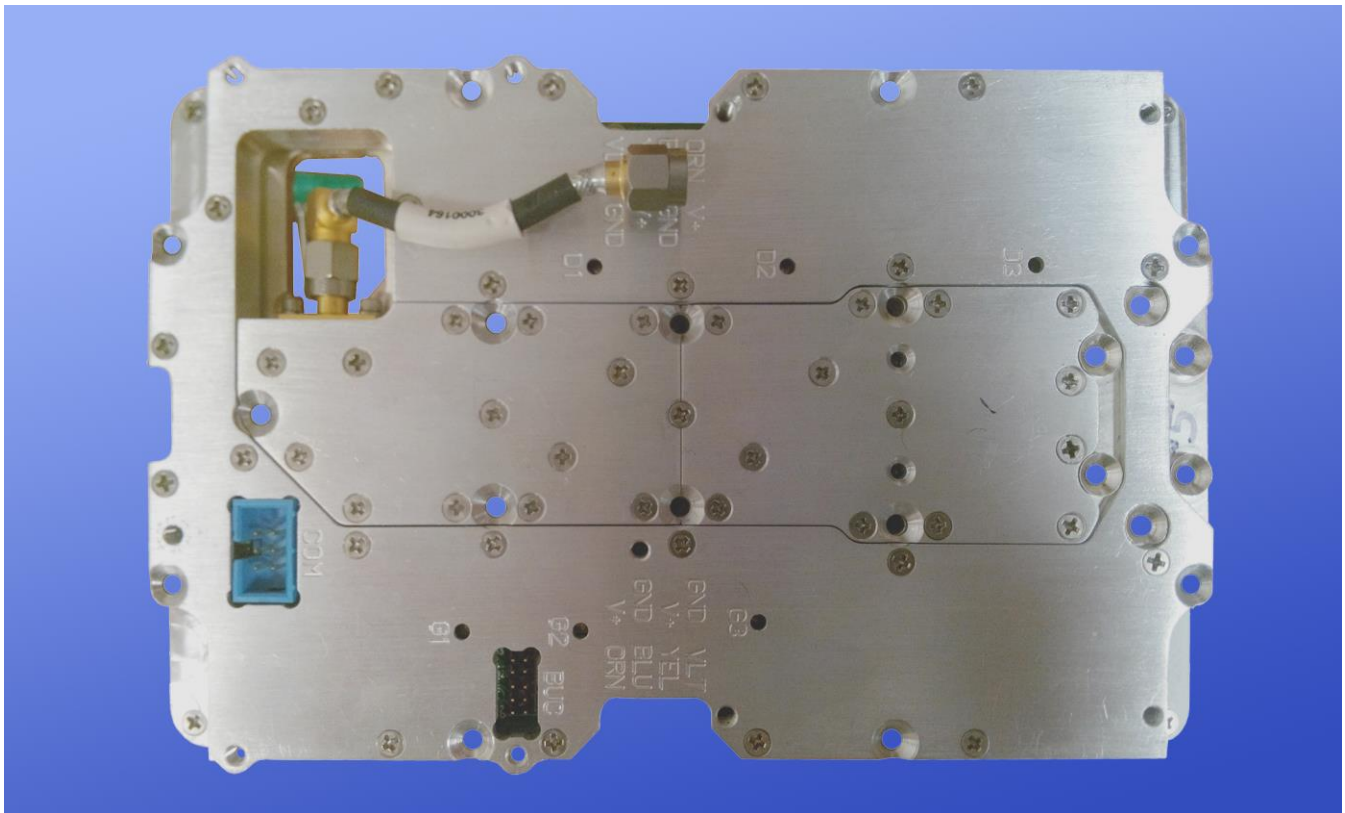
DATASHEET



SATELLITE COMMUNICATIONS

KEY FEATURES

- From 12 W to 30 W of available Power
- Built-in Telemetry for critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- Lightweight and compact size
- 12 VDC power



COST EFFECTIVE SOLUTION FOR THE FUTURE

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Compact C-BAND Booster Brick Specifications

| ELECTRICAL CHARACTERISTICS | | | | |
|-------------------------------------|--|----------|----------|----------|
| | 12 W | 20 W | 30 W | 25 W GaN |
| RF Output at P1 dB | 41 dBm | 43 dBm | 44 dBm | N/A |
| RF Output at P Sat | 41.5 dBm | 43.5 dBm | 44.5 dBm | 44 dBm |
| Output Frequency Range | Standard Band: 5.85 – 6.425 GHz | | | |
| Input Frequency Range | Standard Band: 5.85 – 6.425 GHz | | | |
| Gain Stability Over Temperature | ± 2 dB nominal; ± 2.0 dB max | | | |
| Gain Variation at fixed temperature | ± 2.0 dB over full band; ± 0.5 dB over 40 MHz | | | |
| Linear Gain | 60 dB nominal | | | |
| Gain Control | 20 dB Nominal In 0.5 dB Steps | | | |
| Output VSWR | 1.50:1 | | | |
| Intermodulation | -25 dBc, with 2 equal carriers at 3dB total power back off from rated P1dB | | | |
| Output Spurious | -55 dBc max. | | | |
| Input Impedance | 50 Ohms | | | |
| Input VSWR | 1.50:1 | | | |
| Power consumption (at rated power) | 75 W | 105 W | 135 W | 125 W |
| Power requirement | +12 VDC | +12 VDC | +12 VDC | +12 VDC |

| INTERFACE | |
|------------------|--|
| Output Interface | PCB Microstrip, followed by WR137G adapter (not included) |
| Input Interface | SMA, 50 Ohms |
| Connectors | BUC: 2X5 ribbon miniconnector M&C: 2X3 ribbon connector |

| MECHANICAL | |
|------------------------|---|
| Cooling | Forced Air |
| Dimensions (L x W x H) | 6.42 x 4.02 x 0.83 in (163 x 102 x 21 mm) |
| Weight | 2.9 lbs (1.3 kg) |

| ENVIRONMENTAL | | | |
|---------------|---|---------------------------|---------------|
| | Temperature Range (ambient) | Humidity | Altitude |
| | -40°C to + 55°C (operating); -40°C to + 75°C (storage) | 0 to 80% (non condensing) | 10,000 ft ASL |

Ordering Number: ALBK – **AAA****BBY** – 40 – 11

| AAAA: Band | BBY: RF Power Level, dBm | | |
|---|--------------------------|-------------|--|
| 5868 - Regular C-band 5.85-6.425 GHz | 41 | (12 W GaAs) | |
| | 43 | (20 W GaAs) | |
| | 45 | (30 W GaAs) | |
| | 44G | (25 W GaN) | |