GaN Based Product



200W Ext. Ku-Band Block Up Converter

KEY FEATURES

- Output frequency 13.75-14.50 GHz
- Based on GaN technology which enables high efficiency, low energy consumption and high reliability
- Double L.O. (electronically and manually switchable 12.80 and 13.05 GHz)
- Extreme P-Out GaN linearity
- Auto-ranging power 90-265 VAC power options
- Low power consumption (995W max)
- Digital temperature compensation
- L.O. lock and amplifier LEDs
- Field-exchangeable (F/N) IF connector
- M&C combined RS-232/485 and optional FSK
- Internal 10MHz high stability 10⁻⁸ reference (optional)
- Ethernet control (optional)

Mechanical Drawing

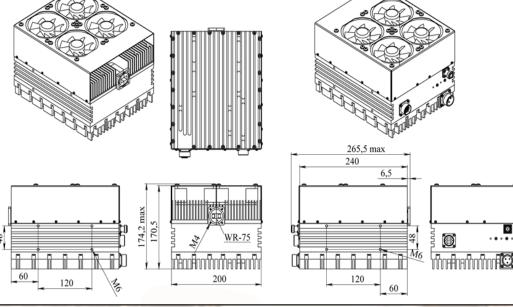
- Three-year warranty
- RoHS compliant

ABD200KX / ABD200KXF



This smallest and lightest 200W L-T o Ku-Band Block Up Converter is based on GaN technology . Incomparable low power consumption, double L.O., Field-Exchangeable connector and autoranging 90-265 V AC powering features make this unit universal for any Ku-Band application. M&C (FSK) capability enables troubleshooting, monitoring and controlling the BUC. User can choose internal 10MHz high stability reference if the corresponding modulator does not provide it.







200W Ext. Ku-Band Block Up Converter

PECIFICATIONS
14.00 to 14.50 GHz
13.75 to 14.50 GHz
13.05 GHz and 12.80 GHz
950 to 1,700 MHz
200W typ. (+53 dBm min)
N-type or F-type (field-exchangeable)
90~265 VAC via MS connector, 995 W typ.
10 ⁻⁸
WR-75 G
68 dB min., 72 dB nominal
-26 dBc max. 2 signal 5MHz apart at P-LINEAR
-45 dBm max
-55 dBc max
-30dBc
± 0.5 dB over 40MHz ± 1.8 dB over full band
\pm 1.8 dB over full band \pm 1.5 dB typ., \pm 1.8 dB max.
via IF cable
10 MHz (sine-wave)
-5 to +5 dBm @ input port
-55 dBc/Hz max. @ 10 Hz
-65 dBc/Hz max. @ 100 Hz
-75 dBc/Hz max. @ 1 KHz
-85 dBc/Hz max. @ 10 KHz
-95 dBc/Hz max. @ 100 KHz
-60 dBm/Hz (max)
-155 dBm/Hz (max)
20 dB max
2 : 1 max
2 : 1 max. (with optional output isolator 1.10:1 max.)
Shut off the BUC in case of L.O. unlocked
RS-232 and RS-485, Ethernet
Multiplexed on TX IFL, compatible with Comtech and Paradise
Summary alarm All OK
Standard L.O. 13.05 GHz
Extended L.O. 12.80 GHz
-40 deg C to +55 deg C
-55 deg C to +85 deg C
Complies with MIL-STD-810E
265 (L) x 200 (W) x 174 (H) mm 10.45" (L) x 7.87" (W) x 6.85" (H)