



6W Mini Ext. Ku-Band Block Up Converter

KEY FEATURES

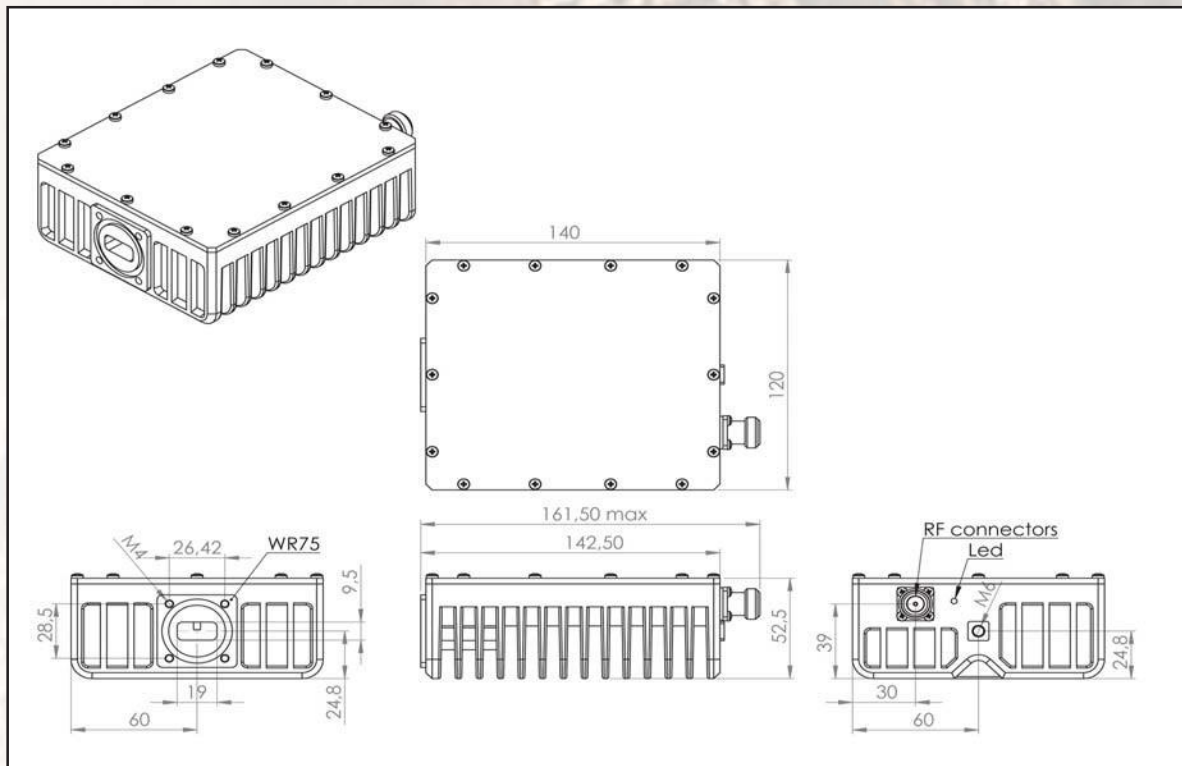
- ◆ Output frequency 13.75-14.50 GHz
- ◆ Based on GaN technology which enables high efficiency low energy consumption and high reliability
- ◆ Incomparable low power consumption (35W max)- can be powered by iDirect or similar modems
- ◆ Auto-ranging 15-30 VDC power
- ◆ Extreme P-Out GaN linearity
- ◆ Digital temperature compensation
- ◆ L.O. lock and amplifier LEDs
- ◆ RoHS compliant

ABA6KXHH



This smallest and lightest 6W L To Ext. (13.75-14.50GHz) Ku-Band Block Up Converter is based on GaN technology. Incomparable low power consumption allows the BUC to be powered by iDirect and similar modems.

Mechanical Drawing





6W Mini Ext. Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	13.75 – 14.50 GHz
Local Oscillator	12.80 GHz
IF frequency	950 to 1,700 MHz
Output power	6W (+38 dBm min)
IF connector	F-type
Power supply - auto-ranging	+15~+30 VDC via IF cable, 35 W max
Output interface	WR-75 G
Gain	60 dB typ
IMD3 (two tones)	-26 dBc max 2 signal 5MHz apart at P-LINEAR
L.O. leakage	-45 dBm max
Spurious	-53 dBc max
Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power)	-30dBc
TX Gain variation	± 0.5 dB over 40 MHz ± 1.8 dB over full band ± 1.5 dB typ., ± 1.8 dB max
TX Gain stability over temperature range	
Requirement for external reference frequency input power	via IF cable 50 MHz (sine-wave) -5 to +5 dBm @ input port
Phase noise (Exceeds Intelsat's standard IESS308/309)	-53 dBc/Hz max. @ 10 Hz -63 dBc/Hz max. @ 100 Hz -73 dBc/Hz max. @ 1 KHz -83 dBc/Hz max. @ 10 KHz -93 dBc/Hz max. @ 100 KHz -113 dBc/Hz max. @ 1 MHz
Noise power density	Transmit Receive
Noise figure	20 dB max
Input V.S.W.R.	1.5 : 1 max
Output V.S.W.R.	1.5 : 1 max.
Mute	Shut off the BUC in case of L.O. unlocked
Status LED	RED GREEN YELLOW blinking
Environmental operating temperature Storage temperature Humidity	Summary alarm All OK All OK extended L.O. 12.80 GHz -40 deg C to +55 deg C -55 deg C to +85 deg C -Up to 100%, Complies with IP65 Rating
Vibration and shock	Complies with MIL-STD-810E
Dimensions & housing	140 (L) x 120 (W) x 52 (H) mm 5.6" (L) x 4.8" (W) x 2.08" (H)
Weight	1.3 kg (2.9 lbs) max