GaN Based Product



6W Mini Ext. Ku-Band Block Up Converter

KEY FEATURES

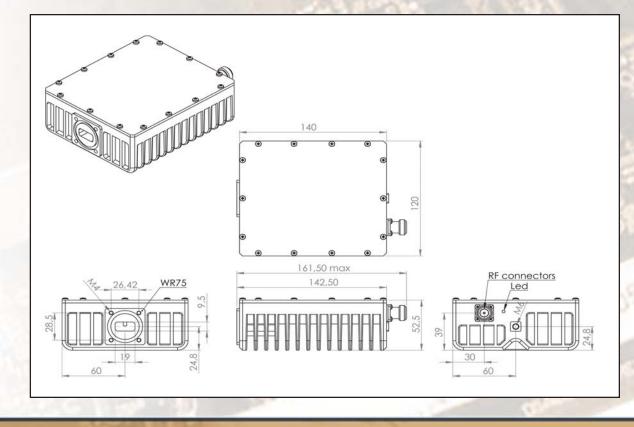
- Output frequency 13.75-14.50 GHz
- Based on GaN technology which enables high efficiency low energy consumption and high reliability
- Incomparable low power consumption (35W max)- can be powered by iDirect or similar modems
- Auto-ranging 15-30 VDC power
- Extreme P-Out GaN linearity
- Digital temperature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

Mechanical Drawing

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 allowes the BUC to be powered by iDirect and similar modems.





6W Mini Ext. Ku-Band Block Up Converter

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	TECHNICAL S	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 with 2dB back-off from rated ou		-30dBc
TX Gain variation		± 0.5 dB over 40 MHz
		± 1.8 dB over full band
TX Gain stability over temperature range		± 1.5 dB typ., ± 1.8 dB max
Requirement for external reference frequency		via IF cable
		50 MHz (sine-wave)
input po	ower	-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	-60 dBm/Hz (max)
	Receive	-150 dBm/Hz (max)
Noise figure		20 dB max
Input V.S.W.R.		2:1 max
Output V.S.W.R.		2 : 1 max.
Mute		Shut off the BUC in case of L.O. unlocked
Status LED	1 m	
RED GREEN YELLOW blinking		Summary alarm
		All OK
		All OK extended L.O. 12.80 GHz
Environmental		
operating temperature		40 dog C to 155 dog C
Storage temperature		-40 deg C to +55 deg C -55 deg C to +85 deg C
Humidity		-bb 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)
Market a	CONTRACTOR OF THE	
Weight	The second second	1.3 kg (2.9 lbs) max