GaN Based Product



2W Mini Ext. Low Ku-Band Block Up Converter

KEY FEATURES

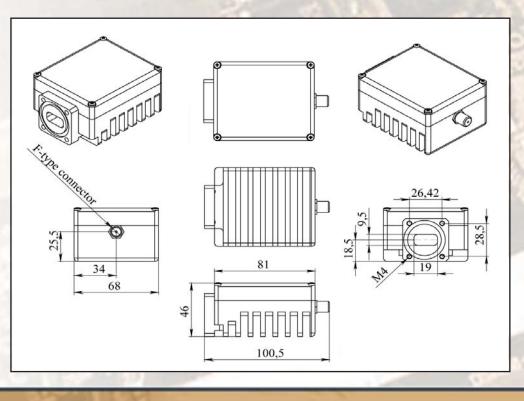
- Output frequency 12.75-13.50 GHz
- L.O. 11.80 GHz
- Based on GaN technology which enables high efficiency, low energy consumption and high reliability
- Smallest package size and weight
- Powered through IF cable
- Industry's lowest power consumption (<14W)
- High power efficiency (2W min)
- RoHS compliant
- Three-year warranty

Mechanical Drawing

ABA2KXL / ABA2KXLF



This smallest and lightest 2W L-To Ku-Band Block Up Converter is based on GaN technology and is designed to be mounted directly on the feed horn. High power efficiency resulting in low current (< 1 amps) consumption allows user to pass DC supply voltage via IF cable. The unit is ideal for network and point to point, data distribution, portable and emergency applications.



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TECHNICAL SI	PECIFICATIONS
RF frequency	12.75 to 13.50 GHz
Local oscillator	11.80 GHz
IF frequency	950 to 1,700 MHz
Output power	2W (+33 dBm min.)
IF connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 14 W max
Output interface	WR-75 Grooved
Gain	60 dB nominal
IMD3 (two tones)	-26 dBc max. 2 signal 5MHz apart at P-LINEAR
L.O. leakage	-45 dBm max
Spurious	-50 dBc max
Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power)	-30 dBc
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	via IF cable
frequency	10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
Phase noise Exceeds Intelsat's standard IESS308/309	-53 dBc/Hz max. @ 10 Hz
and NJRC's specification	-63 dBc/Hz max. @ 100 Hz
	-73 dBc/Hz max. @ 1 KHz
	-83 dBc/Hz max. @ 10 KHz
	-93 dBc/Hz max. @ 100 KHz
Noise power density Transmit	-93 dBc/Hz max. @ 100 KHz -60 dBm/Hz (max.)
Receive	-155 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
Input interface	in case of L.O. unlocked
ABA2KXL	50 Ohm (N-type IF in)
ABA2KXLF	75 Ohm (F-type IF in)
Temperature range (ambient)	
operating	-40 deg C to +55 deg C
storage	-55 deg C to +85 deg C
Vibration & shock	Complies with MIL-STD-810E
Dimensions & housing	100.5 (L) x 68 (W) x 46 (H) mm
	3.96" (L) x 2.68" (W) x 1.81" (H)
Weight	0.45 kg (0.99 lbs) max

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