GaN Based Product



2W Ext. Mini Ku-Band Block Up Converter

KEY FEATURES

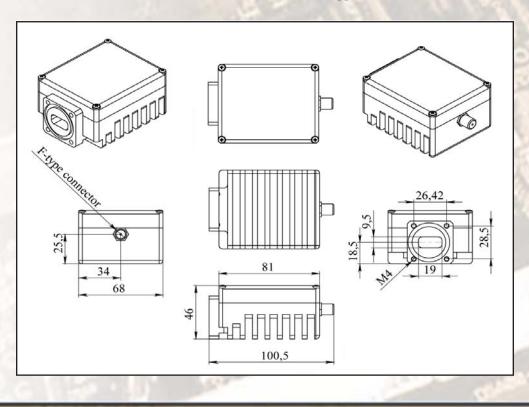
ABA2KX / ABA2KXF

- Output frequency 13.75-14.50 GHz
- Based on GaN technology which enables high efficiency, low energy consumption and high reliability
- Smallest package size and weight
- Industry's lowest power consumption (<14W)
- L.O. 12.80 GHz
- High power efficiency (2W min)
- RoHS compliant
- Three-year warranty

Mechanical Drawing



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.



GaN Based Product



2W Ext. Mini Ku-Band Block Up Converter

RF frequency	13.75 to 14.50 GHz
ocal oscillator	12.80 GHz
F frequency	950 to 1,700 MHz
Dutput power	2W (+33 dBm min.)
F connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 14 W max
Dutput interface	WR-75 Grooved
Gain	60 dB nominal
MD3 (two tones)	-26 dBc max. 2 signal 5MHz apart at P-LINEAR
O. leakage	-45 dBm max
Spurious	-50 dBc max
Spectral regrowth QPSK at 1.5x and OQPSK at 1.0x sym offset with 2dB back-off from rated outp	
ΓX Gain variation ΓX Gain stability over temperature ra	$\begin{array}{c} \pm 0.5 \text{ dB over 40MHz} \\ \pm 1.8 \text{ dB over full band} \\ \pm 1.5 \text{ dB typ., } \pm 1.8 \text{ dB max.} \end{array}$
Requirement for external reference	via IF cable
frequency	10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
Phase noise – Exceeds and Intelsat's standard IESS3 and NJRC's specification	-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
	-60 dBm/Hz (max.) ceive -155 dBm/Hz (max.)
loise figure	20 dB max
nput V.S.W.R.	2 : 1 max
Dutput V.S.W.R.	2 : 1 max.
	Shut off the BUC
Aute nput interface ABA2K) ABA2K)	
Cemperature range (ambient)	1 1 1
operating	-40 deg C to +55 deg C
storage	-55 deg C to +85 deg C
/ibration & 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)
Veight	0.45 kg (0.99 lbs) max