

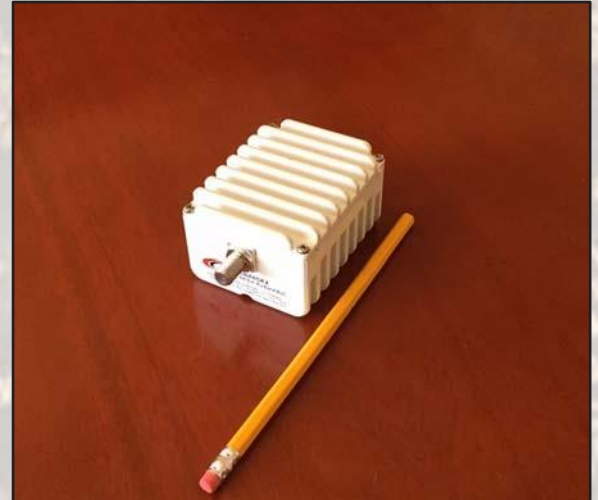


4W Super Mini Ext. Low Ku-Band BUC

KEY FEATURES

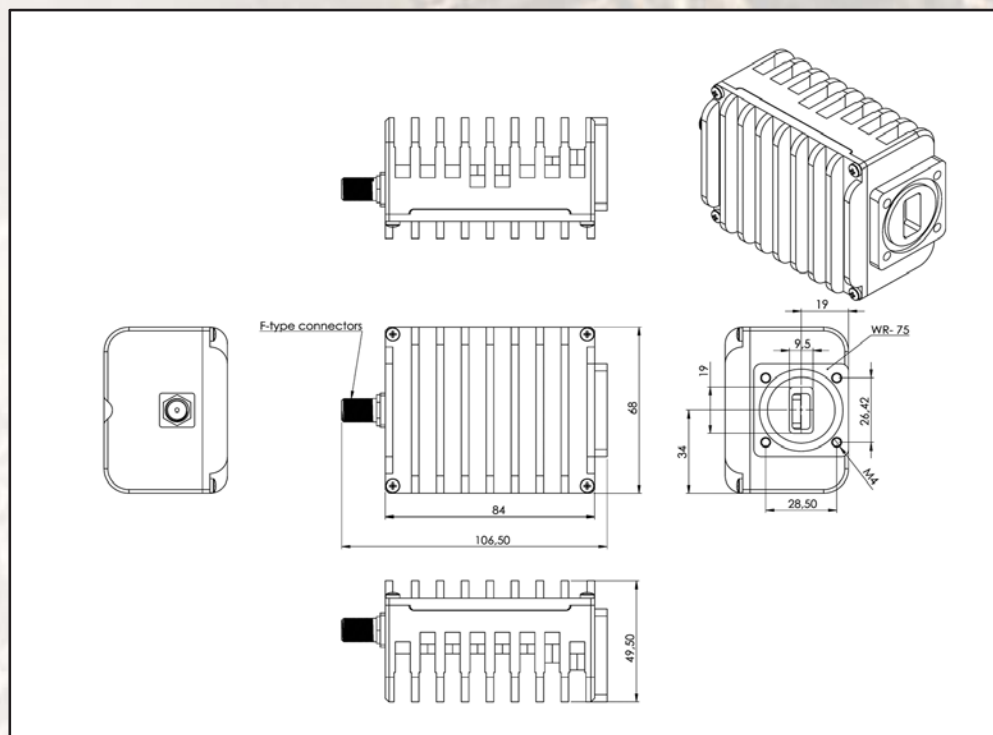
- ◆ Output frequency 12.75-13.50 GHz
- ◆ L.O. 11.80 GHz
- ◆ Smallest package size and weight
- ◆ Powered through IF cable
- ◆ Industry's lowest power consumption (<19W)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA4SKXL / ABA4SKXLF



This smallest and lightest 4W L-To Low 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 to use this BUC with any modem without an external power supply.

Mechanical Drawing





4W Super Mini Ext. Low Ku-Band BUC

TECHNICAL SPECIFICATIONS	
RF frequency	12.75 to 13.50 GHz
Local oscillator	11.80 GHz
IF frequency	950 to 1,700 MHz
Output power	4W (+36 dBm min.)
IF connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 19 W max
Output interface	WR-75 Grooved
Gain	62 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 40MHz ± 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	via IF cable 10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
Phase noise – Exceeds Intelsat's standard IESS308/309 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
Noise power density	Transmit Receive
	-60 dBm/Hz (max.) -155 dBm/Hz (max.)
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
Input interface	ABA4SKXL ABA4SKXLF
	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Temperature range (ambient) operating storage	-40 deg C to +55 deg C -55 deg C to +85 deg C
Vibration & shock	Complies with MIL-STD-810E
Dimensions & housing	84 (L) x 68 (W) x 49.5 (H) mm 3.36" (L) x 2.7" (W) x 1.98" (H)
Weight	0.340 kg (0.75 lbs) max