

5W Super Mini Ext. Ku-Band BUC

KEY FEATURES

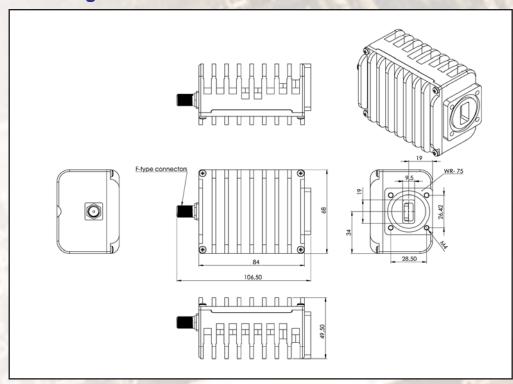
- Output frequency 13.75-14.50 GHz
- L.O. 12.80 GHz
- Smallest package size and weight
- Powered through IF cable
- Industry's lowest power consumption (<22W)
- RoHS compliant
- Three-year warranty

ABA5SKX / ABA5SKXF



This smallest and lightest 5W 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 to use this BUC with any modem without an external power supply.

Mechanical Drawing



GaN Based Product



5W Super Mini Ext. Ku-Band BUC

TECHNICAL SPECIFICATIONS	
RF frequency	13.75 to 14.50 GHz
Local oscillator	12.80 GHz
IF frequency	950 to 1,700 MHz
Output power	5W (+37 dBm min.)
IF connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 22 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
ALL STORY	± 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 –	50 dBa/ll= man @ 40 ll=
Exceeds and Intelsat's standard IESS308/309 and NJRC's specification	-53 dBc/Hz max. @ 10 Hz
and Norte a oppositionation	-63 dBc/Hz max. @ 100 Hz
	-73 dBc/Hz max. @ 1 KHz
A CONTRACTOR OF THE PARTY OF TH	-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.	2:1 max
Output V.S.W.R.	2:1 max.
Marie Control of the	Shut off the BUC
Mute Input interface	in case of L.O. unlocked
ABA5SKX	50 Ohm (N-type IF in)
ABA5SKXF	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	84 (L) x 68 (W) x 49.5 (H) mm
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Weight	0.340 kg (0.75 lbs) max