

6W Super Mini Ext. Low Ku-Band BUC

KEY FEATURES

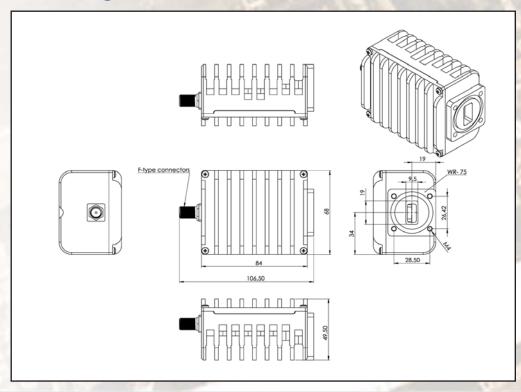
- Output frequency 12.75-13.50 GHz
- L.O. 11.80 GHz
- Smallest package size and weight
- Powered through IF cable
- Industry's lowest power consumption (<25W)
- RoHS compliant
- Three-year warranty

ABA6SKXL / ABA6SKXLF



This smallest and lightest 6W 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





6W Super Mini Ext. Low Ku-Band BUC

TECHNICAL SPECIFICATIONS RF frequency Local oscillator IF frequency 950 to 1,700 MHz Output power 6W (+38 dBm min.) IF connector N-type or F-type Power supply 415 VDC~+24 VDC via IF cable 25 W Output interface WR-75 Grooved Gain 62 dB nominal IMD3 (two tones) L.O. leakage -45 dBm max Spurious Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power) TX Gain variation 12.75 to 13.50 GHz 11.80 GHz 40 GHZ	
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TV Calm workston	
TX Gain stability over temperature range ± 0.5 dB over 40MHz ± 1.8 dB over full band ± 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 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. 2:1 max	
Output V.S.W.R. 2:1 max.	
Shut off the BUC	
Mute in case of L.O. unlocked	
Input interface ABA6SKXL 50 Ohm (N-type IF in) ABA6SKXLF 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	
3.36" (L) x 2.7" (W) x 1.98" (H)	
Weight 0.340 kg (0.75 lbs) max	