

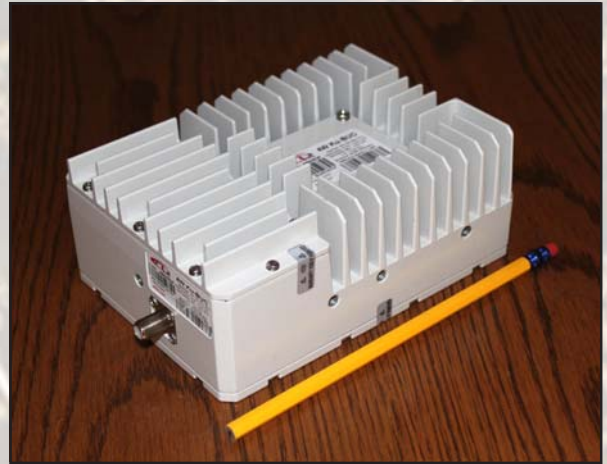


4W Ku-Band Block Up Converter

KEY FEATURES

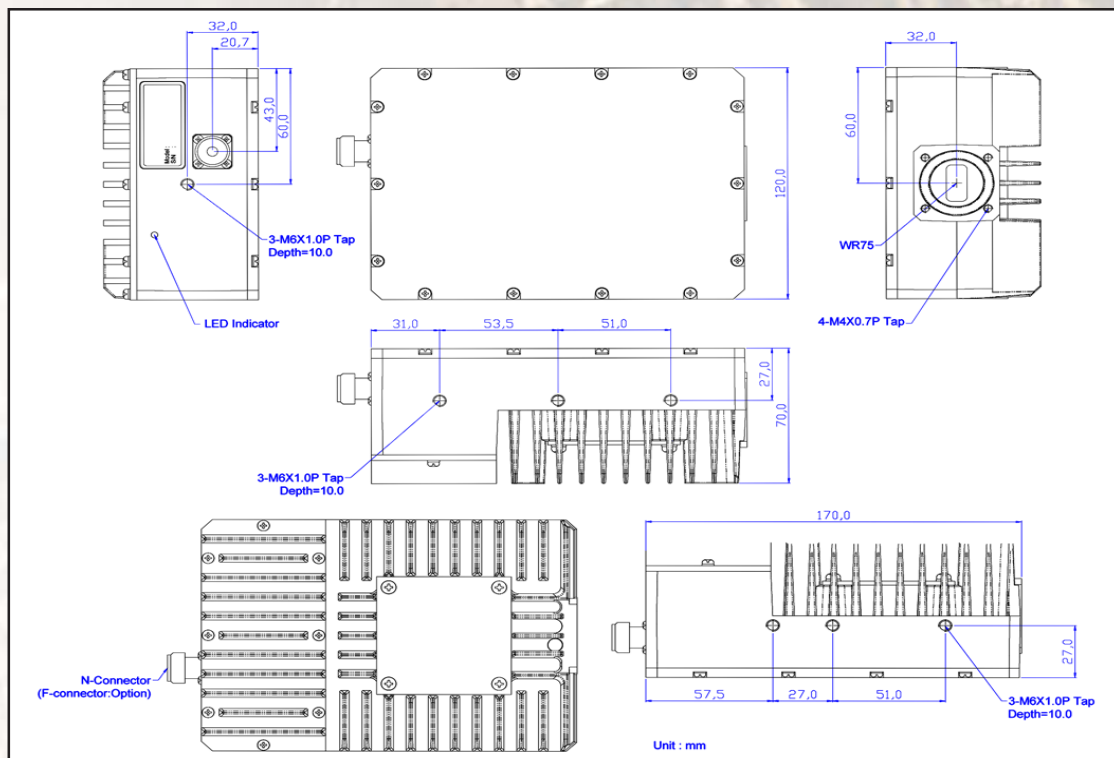
- ◆ Smallest package size and weight
- ◆ Auto-ranging 18 - 60 VDC power
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<35W)
- ◆ High power efficiency (4W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABK4KU / ABK4KUF



This small and light weight 4W L-To Ku-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (≤ 2 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.

Mechanical Drawing





4W Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	14.00 to 14.50 GHz
Local oscillator	13.05 GHz
IF frequency	950 to 1,450 MHz
Output power @ P1dB min over temperature	4W (+36 dBm min.)
IF connector	N-type or F-type
Power supply	+18 VDC~+60 VDC via IF cable 38 W max
Output interface	WR-75 Grooved
IMD3	-30 dBc max
L.O. leakage	-50 dBm max
Spurious	-50 dBc max
Gain	60 dB nominal
Gain variation	
over 54 MHz	0.7 dB p_p
over 500 MHz	2.0 dB p_p
Over operating temperature	2.2 dB p_p @ fixed frequency
Requirement for external reference	via IF cable
frequency	10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
Phase noise	-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 -110 dBc/Hz max @ 1 MHz
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 in case of L.O. unlocked
Input interface	ABK4KU ABK4KUF
	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Temperature range (ambient)	
operating	-40 deg C to +55 deg C
storage	-40 deg C to +75 deg C
Dimensions & housing	170 (L) x 120 (W) x 70 (H) mm 6.8" (L) x 4.8" (W) x 2.8" (H)
Weight	2.2 kg (4.8 lbs)