



8W Ku-Band Block Up Converter

KEY FEATURES

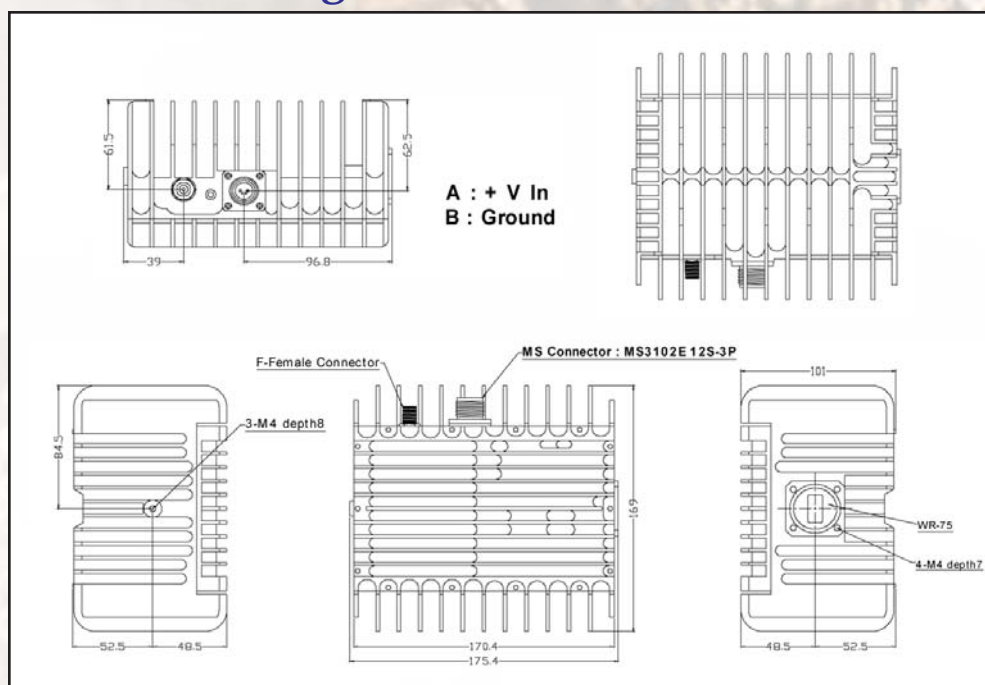
- ◆ “No cooling fan” solution
- ◆ Smallest package size and weight
- ◆ Feed horn mounting
- ◆ 14.00-14.50 GHz / 13.75-14.25 / 13.75-14.50 GHz options
- ◆ Low power consumption (<65W)
- ◆ High power efficiency (8W min @P1dB over temperature)
- ◆ Auto-ranging 18-60 VDC via IF or MS connector(optional) power options
- ◆ RoHS compliant
- ◆ Three-year warranty

ABE8KU / ABE8KUF
ABE8KUL / ABE8KULF
ABE8KUX / ABE8KUXF



This small and light weight 8W L-To Ku-Band Block Up Converter is designed to be mounted on a feed horn. High power efficiency resulting in low current consumption allows user to pass DC supply voltage via IF cable or via external MS connector. The unit is ideal for network and point to point, data distribution, portable and emergency applications.

Mechanical Drawing





8W Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF frequency	ABE8KU ABE8KUL ABE8KUX	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local oscillator	ABE8KU ABE8KUL ABE8KUX	13.05 GHz 12.80 GHz 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temp.		8W (+39 dBm min.)
IF connector		N-type or F-type
Power supply	ABE8KU ABM8KU	+18 VDC~+60 VDC via IF cable 65 W max +18 VDC~+60 VDC via MS conn. 65 W max
Output interface		WR-75 G
Gain		58 dB min., 72 dB max.
IMD3		-30 dBc max
L.O. Leakage		-33 dBm max
Spurious		-50 dBc max
Gain variation	over 54 MHz over 500 MHz	1.5 dB p_p 2.1 dB p_p
Over operating temperature		1.9 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	ABE8KU ABE8KUF	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		175.4 (L) x 169 (W) x 101 (H) mm 6.90" (L) x 6.65" (W) x 3.97" (H)
Weight		2.7 kg (5.9 lbs) max