

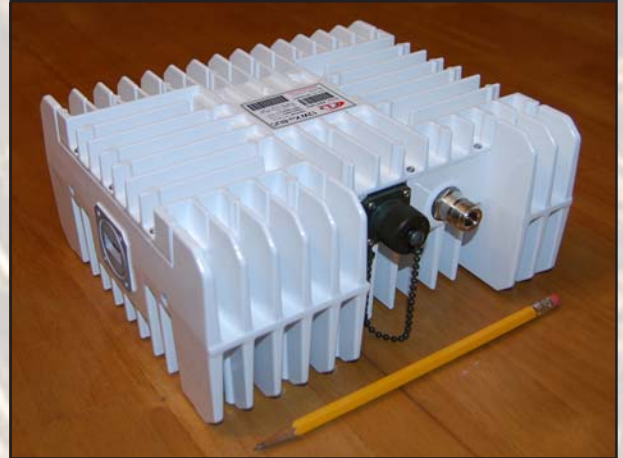


12W Ku-Band Block Up Converter

KEY FEATURES

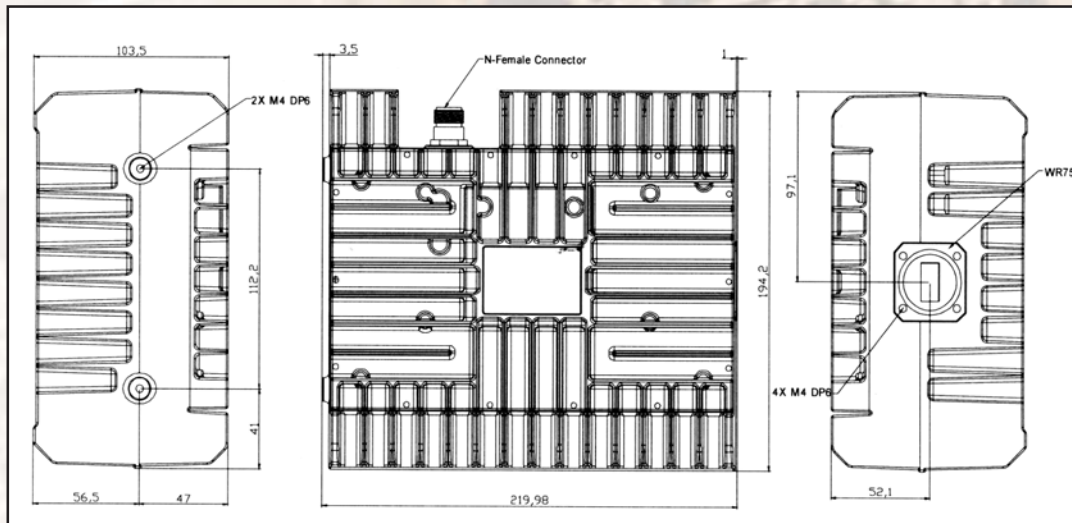
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ “No cooling fan” solution
- ◆ Input side connector
- ◆ Powered through IF cable
- ◆ Low power consumption (<82W)
- ◆ High power efficiency (12W min @P1dB over temperature)
- ◆ 24VDC/48VDC/48VDC via MS connector input power options
- ◆ RoHS compliant
- ◆ Three-year warranty
- ◆ 14.00-14.50 GHz/13.75-14.25/
13.75-14.50 GHz options

ABA12KU / ABA12KUF
ABA12KUL / ABA12KULF
ABA12KUX / ABA12KUXF



This small and light weight 12W L-To Ku-Band Block Up Converter is designed to be mounted on the 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





12W Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF frequency	ABA12KU ABA12KUL ABA12KUX	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local oscillator	ABA12KU ABA12KUL ABA12KUX	13.05 GHz 12.80 GHz 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temp.		12W (+41 dBm min.)
IF connector		N-type or F-type
Power supply	ABA12KU ABB12KU ABC12KU	+18 VDC~+24 VDC via IF cable 82 W max +38 VDC~+60 VDC via IF cable 81 W max +38 VDC~+60 VDC via MS conn. 81 W max
Output interface		WR-75 G
Gain		53 dB min., 65 dB nominal
IMD3		-28 dBc max
L.O. leakage		-33 dBm max
Spurious		-50 dBc max
Gain variation	over 54 MHz over 500 MHz	0.7 dB p_p 2.0 dB p_p 2.2 dB p_p @ fixed frequency
Over operating temperature		
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	ABA12KU ABA12KUF	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		212 (L) x 192 (W) x 102 (H) mm 8.4" (L) x 7.5" (W) x 4.1" (H)
Weight		4.2 kg (9.3 lbs) max