



10W Ku-Band Block Up Converter

KEY FEATURES

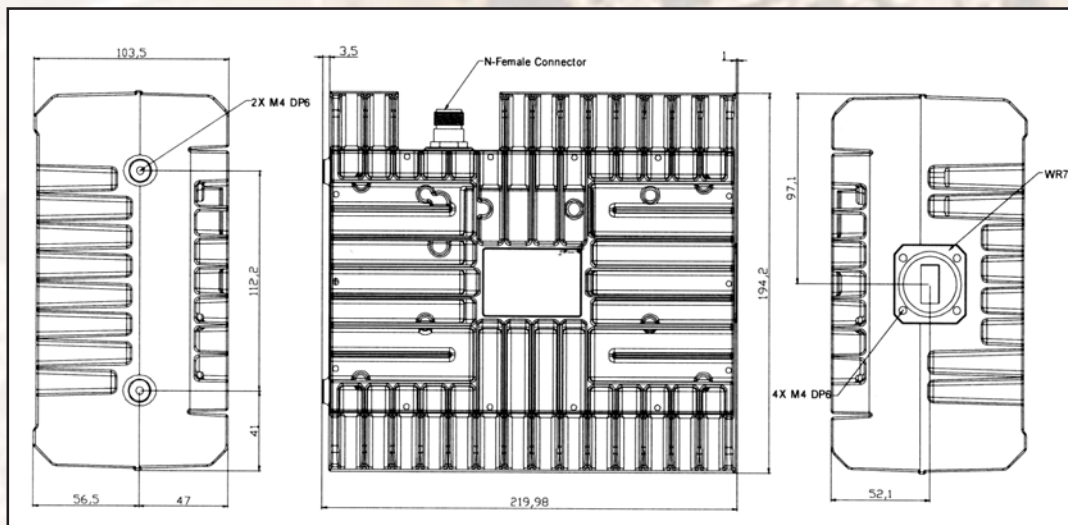
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ “No cooling fan” solution
- ◆ Input side connector
- ◆ Powered through IF cable
- ◆ Low Power Consumption (<96W)
- ◆ High Power Efficiency (10W min @P1dB over temperature)
- ◆ 24VDC via RF Cable
- ◆ RoHS Compliant
- ◆ Two year Warranty

ABA10KU / ABA10KUF



This small and light weight 10W 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





10W 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	10W Linear (+40 dBm min.)
IF Connector	N-Type or F-Type
Power Supply	+18 ~+24 VDC via IF Cable 96 W max
Output Interface	WR-75 Grooved
Linear Gain	50 dB Min., 61 dB nominal
Gain Variation Over 54 MHz Over 500 MHz Over Operating Temperature	2.0 dB p_p 4.0 dB p_p 4.0 dB p_p @ Fixed Frequency
Requirement for External Reference Frequency Input Power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ Input port
Phase Noise	-30 dBc/Hz max. @ 10 Hz -60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz -100 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 ABA10KU ABA10KUF	50 Ohm (N-type IF In) 75 Ohm (F-type IF In)
Temperature Range (ambient) Operating Storage	-40 deg C to +55 deg C -40 deg C to +75 deg C
Dimensions & Housing	212 (L) x 182 (W) x 102 (H) mm 8.4" (L) x 7.3" (W) x 4.1" (H)
Weight	3.9 kg (8.58 lbs) max