



25W Ku-Band Block Up Converter

KEY FEATURES

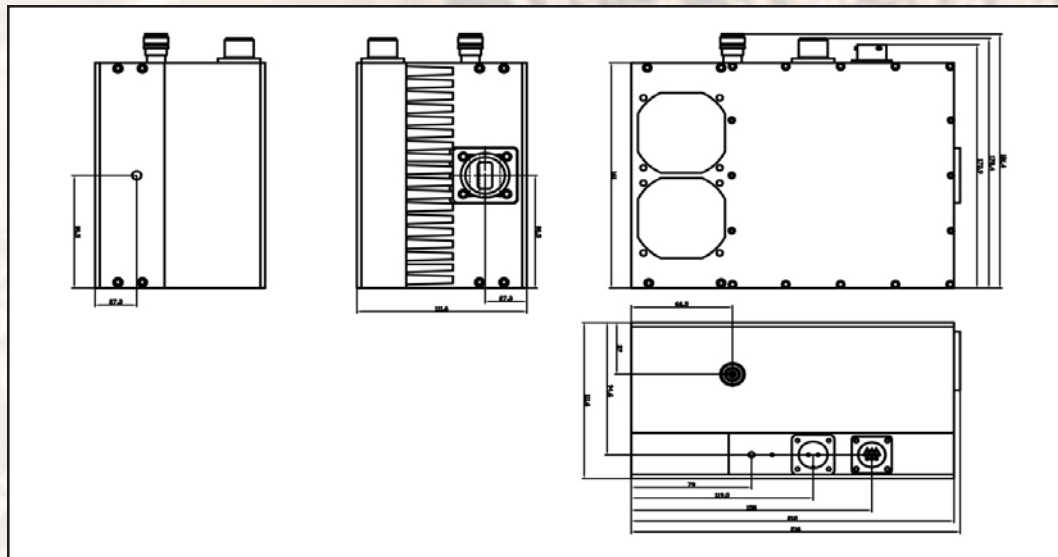
- ◆ Smallest package size and weight
- ◆ Feed horn mounting
- ◆ Input side connector
- ◆ Powered through IF cable or MS connector (autodetected)
- ◆ Low Power Consumption (<160W)
- ◆ L.O. lock and amplifier LED
- ◆ High Power Efficiency (25W min @P1dB over temperature)
- ◆ RoHS Compliant
- ◆ M&C/FSK (Optional)
- ◆ Three-year Warranty
- ◆ 14.00-14.50/13.75-14.25/13.75-14.50 GHz options

ABC25KU / ABC25KUF
ABC25KUL / ABC25KULF
ABC25KUX / ABC25KUXF



This is the smallest and lightest 25W L-To Ku-Band Block Up Converter in the Industry 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. The unit is ideal for mobile, portable and emergency applications.

Mechanical Drawing





25W Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF Frequency	ABC25KU ABC25KUL ABC25KUX	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local Oscillator	ABC25KU ABC25KUL ABC25KUX	13.05 GHz 12.80 GHz 12.80 GHz
IF Frequency		950 to 1,700 MHz
Output Power @ P1dB min over temp.		25W (+44 dBm min.)
IF Connector		N-Type or F-Type
Power Supply	ABC25KU ABB25KU	+36 VDC~+60 VDC via MS Conn. 160 W max +36 VDC~+60 VDC via IF Cable 160 W max
Output Interface		WR-75 Grooved
Linear Gain		65 dB Min., 68 dB nominal
Gain Variation	Over 54 MHz Over 500 MHz	1.0 dB p_p 2.0 dB p_p
Over Operating Temperature		2.0 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		-35 dBc/Hz max. @ 10 Hz -65 dBc/Hz max. @ 100 Hz -75 dBc/Hz max. @ 1 kHz -85 dBc/Hz max. @ 10 kHz -95 dBc/Hz max. @ 100 kHz -105 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	ABC25KU ABC25KUF	50 Ohm (N-type IF In) 75 Ohm (F-type IF In)
Temperature Range (ambient)		
	Operating	-40 deg C to +55 deg C
	Storage	-50 deg C to +75 deg C
Dimensions & Housing		216 (L) x 161 (W) x 111 (H) mm 8.6" (L) x 6.4" (W) x 4.4" (H)
Weight		4.4 kg (9.8 lbs) max