



25 W Ext. Ku-Band Block Up Converter

KEY FEATURES

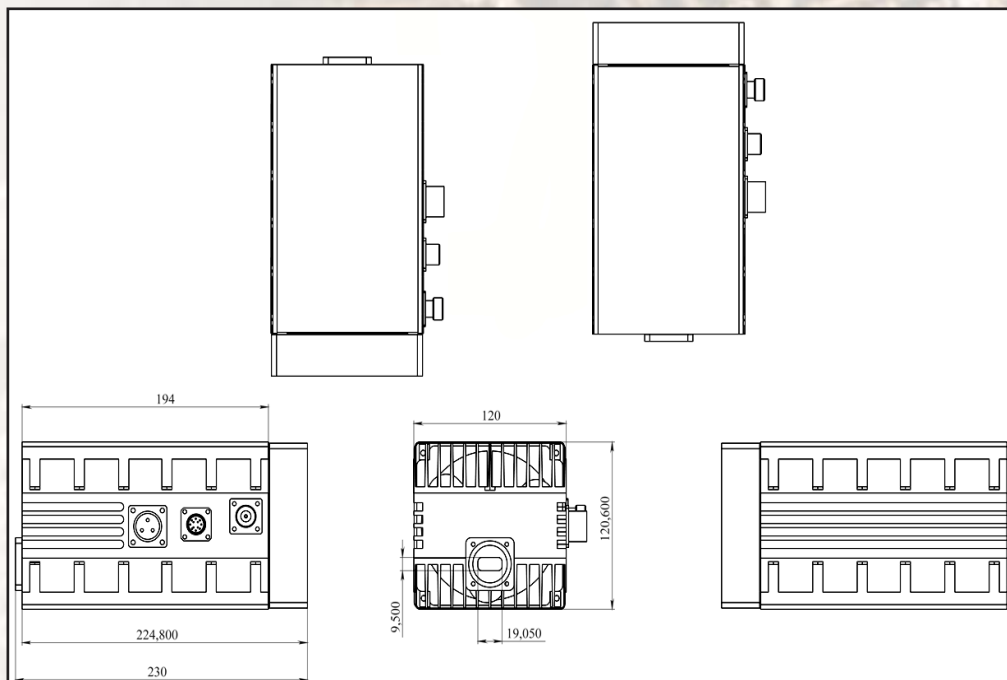
- ◆ Smallest package size and weight
- ◆ Output frequency 13.75-14.50 GHz
- ◆ Double - L.O. (electronically switchable 12.80 / 13.05 GHz)
- ◆ Auto-ranging 36-58 VDC or 80-240 VAC power options
- ◆ Low power consumption (<170W)
- ◆ Digital temperature compensation
- ◆ L.O. lock and amplifier LED
- ◆ M&C - combined RS-232/485 and optional FSK
- ◆ Three-year warranty
- ◆ RoHS compliant

ABD25KX / ABD25KXF ABC25KX / ABC25KXF



This smallest and lightest 25W L-To Ku-Band Block Up Converter is designed to be mounted on the feed horn. The unit is ideal for portable and mobile applications. Double – L.O. feature makes unit universal for Ku-Band requirements. Unit can be powered either with 48 VDC or 80-240 VAC and consumes less than 170W.

Mechanical Drawing





25 W Ext. Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	L.O. 13.05 GHz L.O. 12.80 GHz	14.00 to 14.50 GHz 13.75 to 14.50 GHz
Local oscillator		13.05 GHz and 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 ABC25KX - auto-ranging ABD25KX - auto-ranging		+36~+58 VDC via MS connector, 165W max 80~240 VAC via MS connector, 170W max
Output interface		WR-75 Grooved
Gain variation	over 40 MHz over 500 MHz	0.8 dB p_p 1.4 dB p_p
Over operating temperature		0.75 dB p_p @ fixed frequency
Gain		65 dB min., 68 dB nominal
IMD3		-28 dBc max
L.O. leakage		-33 dBm max
Spurious		-50 dBm max
Requirement for external reference		via IF cable
frequency		10 MHz (sine-wave)
input power		-5 to +5 dBm @ input port
Phase noise		-55 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 -120 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	ABC25KX/ABD25KX ABC25KXF/ABD25KXF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Status LED	GREEN YELLOW RED	All ok standard LO 13.05 GHz All ok extended LO 12.80 GHz Summary alarm
Temperature range (ambient)		
operating		-40 deg C to +55 deg C
storage		-40 deg C to +75 deg C
Dimensions & housing		230 (L) x 120 (W) x 120.6 (H) mm 9.05" (L) x 4.72" (W) x 4.74" (H)
Weight		3.67 kg (7.1 lbs) max