



25W X-Band Block Up Converter

KEY FEATURES

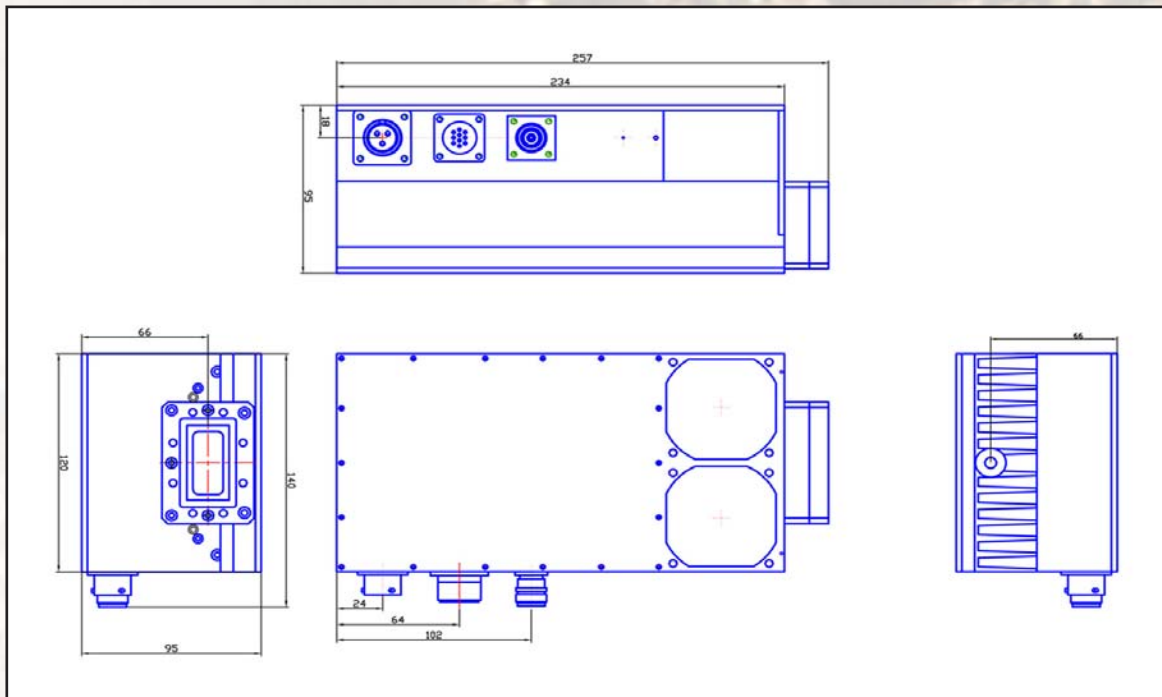
- ◆ 7.900 - 8.400 GHz output frequency
- ◆ Smallest package size and weight
- ◆ High power efficiency (25W min @P1dB)
- ◆ L.O. frequency 6.950 GHz
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 80 - 240 VAC or 38 - 56 VDC auto-ranging power (152W max)
- ◆ Power and lock status LED
- ◆ Advanced M & C interface combined RS-232/485
- ◆ Internal 10MHz high stability 10-8 reference (optional)
- ◆ FSK (optional)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABD25X / ABD25XF ABC25X / ABC25XF



This is a unique X-Band (7.900-8.400 GHz) powered with auto-ranging 80-240 VAC or 38-56 VDC unit, designed for mobile applications. It's light enough to be mounted on a feed horn of most antennas.

Mechanical Drawing





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TECHNICAL SPECIFICATIONS

RF frequency	7.900 to 8.400 GHz
Local oscillator	6.950 GHz
IF frequency	950 to 1,450 MHz
Output power @ P1dB	25W (+44 dBm min.)
IF connector	N-type or F-type (field-exchangeable)
Power supply via MS connector ABA25X-auto-ranging ABE25X-auto-ranging	20-28 VDC, 152 W max 18-72 VDC, 151 W max
Output interface	WR-112G, CPR-112G, WR-90G, CPR-137G
Requirement for external reference: frequency input power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port
Internal 10MHz high stability reference	10 ⁻⁸
Gain	65 dB min., 72 dB max
IMD3	-27 dBc max
Spurious	-50 dBc max
L.O. leakage	-28 dBm max
Gain variation over 40 MHz over 500 MHz	1.1 dB p_p 1.6 dB p_p
Over operating temperature	1.2 dB p_p @ fixed frequency
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	15 dB max
Input V.S.W.R.	2 : 1 max
Output V.S.W.R.	2 : 1 max.
Mute	Shut off the HPA if L.O. unlocked
Status LED RED GREEN YELLOW	Summary alarm All OK Standard LO 13.05 GHz
Input interface ABA25X/ABE25X ABA25KXF/ABE25XF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Temperature range (ambient) operating storage	-45 deg C to +65 deg C -55 deg C to +85 deg C
Dimensions & housing	257 (L) x 120 (W) x 95 (H) mm 10.2" (L) x 4.8" (W) x 3.8" (H)
Weight	3.5 kg (7.7 lbs) max