



50W X-Band Block Up Converter

KEY FEATURES

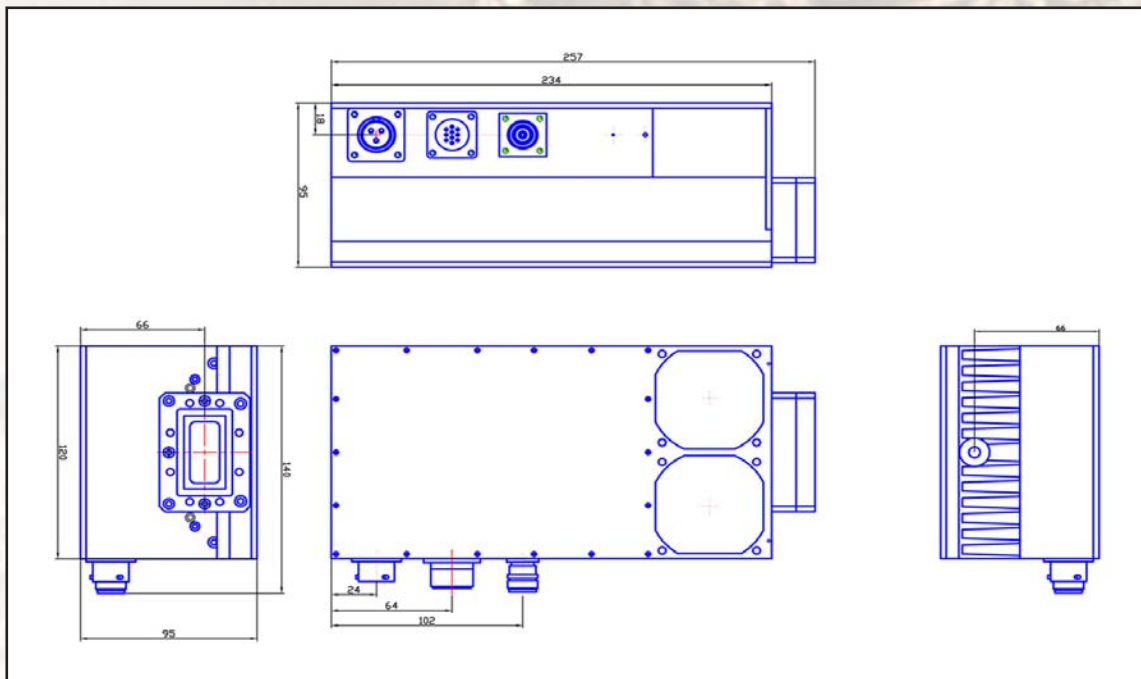
- ◆ Smallest package size and weight
- ◆ 7.900 - 8.400 GHz output
- ◆ High power efficiency (50W min @P1dB)
- ◆ L.O. frequency 6.950 GHz
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 80 - 240 VAC or 38 - 56 VDC auto-ranging power (240W max)
- ◆ Power and lock status LED
- ◆ Advanced M & C interface / FSK (optional)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABD50X / ABD50XF ABC50X / ABC50XF



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	6.950GHz
IF frequency	950 to 1,450 MHz
Output power @ P1dB	50W (+47 dBm min.)
IF connector	N-type or F-type
Power supply via MS connector ABC50X-auto-ranging ABD50X-auto-ranging	38-56 VDC, 235 W max 80-240 VAC, 240 W max
Output interface	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
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	-110 dBc/Hz max. @ 100 KHz
	-95 dBc/Hz max. @ 10 KHz
	-85 dBc/Hz max @ 1 KHz
	-75 dBc/Hz max @ 100 Hz
Spurious level	-50 dBc
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 GREEN YELLOW RED	All OK Power On Summary alarm
Input interface ABD50X ABD50XF	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