



50W Full C-Band Block Up Converter

KEY FEATURES

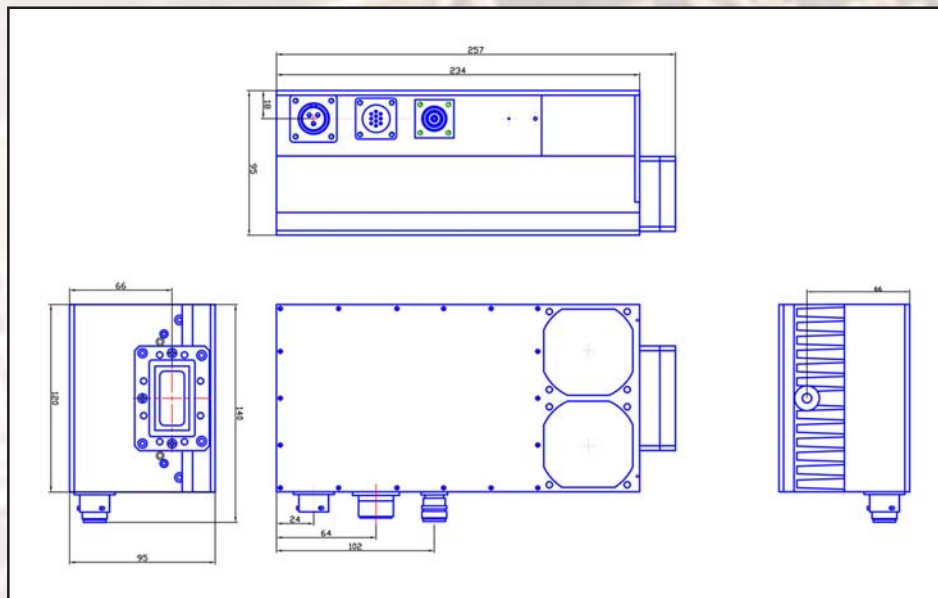
- ◆ Smallest package size and weight
- ◆ 5.875 - 7.200 GHz output
- ◆ High power efficiency (50W min @P1dB over temperature)
- ◆ Double- L.O. (electronically switchable 4.9 & 5.5 GHz)
- ◆ Digital temperature compensation
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 80 - 240 VAC or 38 - 56 VDC auto-ranging power (240W max)
- ◆ Power and lock status LED
- ◆ Advanced M & C interface / FSK (optional)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABC50XC / ABC50XCF ABD50XC / ABD50XCF



This is a unique Full C-Band (5.875-7.200 GHz) 50W Block Up Converter powered with auto-ranging 80-240 VAC or 38-56 VDC unit, designed for mobile applications especially when an earth station needs to be able to use different C-Band (Standard-Palapa or Insat) transponders or satellites. It's light enough to be mounted on a feed horn of most antennas.

Mechanical Drawing





50W Full C-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	5.875 to 7.200 GHz
Local oscillator	4.90 and 5.5 GHz
IF frequency	950 to 1,700 MHz
Output power @ P1dB	50W (+47 dBm min.)
IF connector	N-type or F-type
Power supply via MS connector ABC50XC-auto-ranging ABD50XC-auto-ranging	38-56 VDC, 235 W max 80-240 VAC, 240 W max
Output interface	CPR 137
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 standard LO 4.90 GHz All OK extended LO 5.5 GHz Summary alarm
Input interface ABD50XC / ABC50XC ABD50XCF / ABC50XCF	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