



15W Full C-Band Block Up Converter

KEY FEATURES

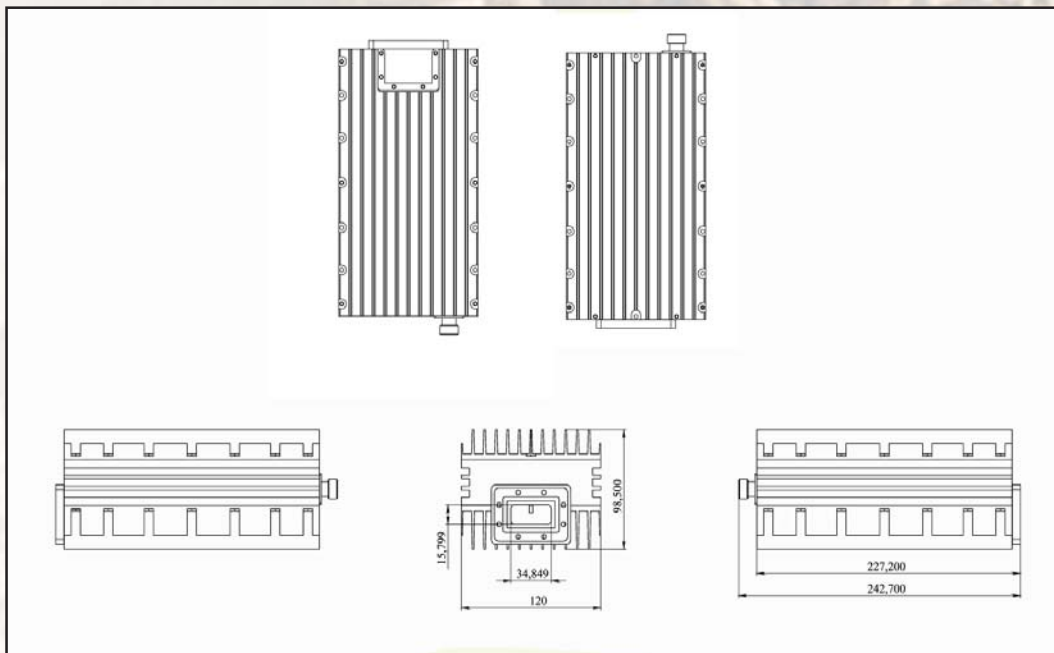
- ◆ 5.850 - 7.200 GHz output frequency
- ◆ Smallest package size and weight
- ◆ High power efficiency (15W min @P1dB over temperature)
- ◆ Double- L.O. (switchable 4.9 & 5.5 GHz)
- ◆ Digital temperature compensation
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 18 - 75 VDC auto-ranging power (72W max)
- ◆ Power and lock status LED
- ◆ Optional advanced M & C- combined RS-232/485 interface and optional FSK
- ◆ RoHS compliant
- ◆ Three-year warranty

ABE15XC / ABE15XCF ABD15XC / ABD15XCF



This is a unique Full C-Band (5.850-7.200 GHz) 15W Block Up Converter powered with (auto-ranging) 18-75 VDC unit, designed for mobile applications especially when an earth station needs to be able to use different C-Band (Standard, Palapa and Insat) transponders or satellites. It's light enough to be mounted on a feed horn of most antennas.

Mechanical Drawing





15W Full C-Band Block Up Converter

TECHNICAL SPECIFICATIONS	
RF frequency	5.850 to 7.200 GHz
Local oscillator	4.90 and 5.50 GHz - switchable
IF frequency	950 to 1,700 MHz
Output power @ P1dB	15W (+41.8 dBm min.)
IF connector	N-type or F-type (field-exchangeable)
Power supply – auto-ranging via IF connector	18-75 VDC, 72 W max
Output interface	CPR 137 G
Gain	68 dB nominal
IMD3	-28 dBc max
L.O. leakage	-45 dBm max
Spurious	-53 dBc max
Requirement for external reference:	via IF cable
frequency	10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
Gain variation	1.1 dB p_p
over 40 MHz	1.6 dB p_p
over 500 MHz	1.2 dB p_p @ fixed frequency
Over operating temperature	
Phase noise	-53 dBc/Hz max. @ 10 Hz
	-63 dBc/Hz max. @ 100 Hz
	-73 dBc/Hz max @ 1 KHz
	-83 dBc/Hz max @ 10 KHz
	-93 dBc/Hz max @ 100 KHz
	-110 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	Summary alarm
	RED
	GREEN
	YELLOW
	YELLOW blinking
	All OK
	All OK standard L.O. 4.90 GHz
	All OK extended L.O. 5.50 GHz
Input interface	50 Ohm (N-type IF in)
ABE15XC / ABD15XC	75 Ohm (F-type IF in)
ABE15XCF / ABD15XCF	
Temperature range (ambient)	
operating	-45 deg C to +65 deg C
storage	-55 deg C to +85 deg C
Dimensions & housing	242.7(L) x 120 (W) x 98.5 (H) mm
	9.55" (L) x 4.72" (W) x 3.87" (H)
Weight	2.5 kg (5.5 lbs) max