



10W Full C-Band Block Up Converter

KEY FEATURES

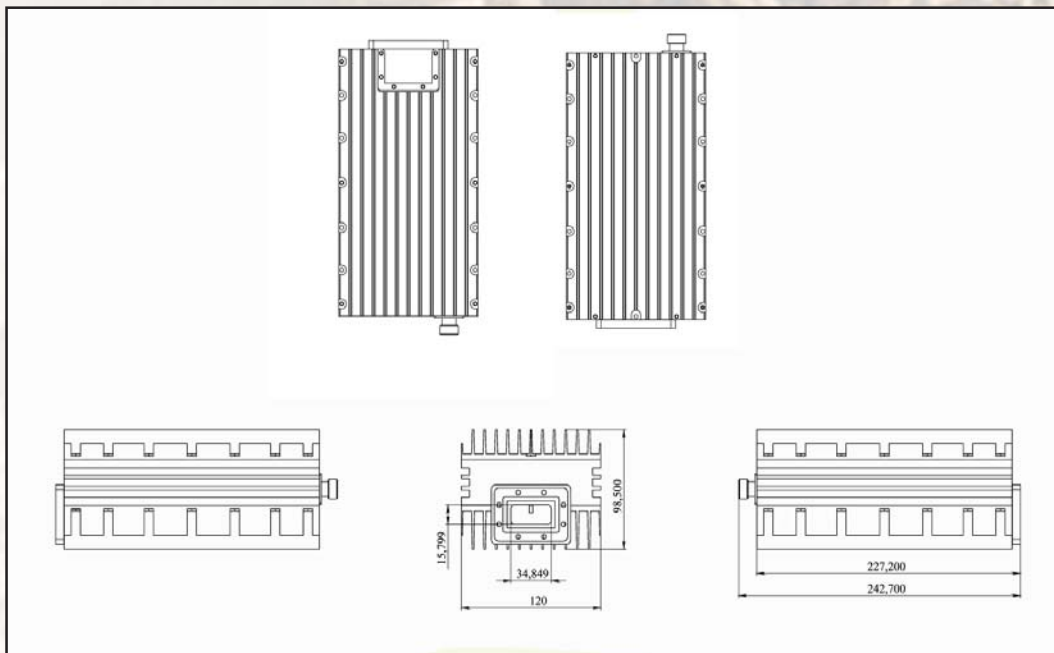
- ◆ 5.850 - 7.200 GHz output frequency
- ◆ Smallest package size and weight
- ◆ High power efficiency (10W min @P1dB over temperature)
- ◆ Double- L.O. (switchable 4.9 & 5.5 GHz)
- ◆ Digital temperature compensation
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 18 - 75 VDC auto-ranging power (49W max)
- ◆ Power and lock status LED
- ◆ Optional advanced M & C- combined RS-232/485 interface and optional FSK
- ◆ Internal 10MHz high stability 10^{-8} reference (optional)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABE10XC / ABE10XCF ABD10XC / ABD10XCF



This is a unique Full C-Band (5.850-7.200 GHz) 10W 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





10W 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	10W (+40 dBm min.)
IF connector	N-type or F-type (field-exchangeable)
Power supply : auto-ranging via IF connector	18-75 VDC, 49 W max
Output interface	CPR 137
Internal 10MHz high stability reference	10 ⁻⁸
Gain	68 dB nominal
IMD3	-28 dBc max
L.O. leakage	-45 dBm max
Spurious	-53 dBc max
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	-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 SSPA LED RED GREEN	Summary alarm All OK
L.O. LED GREEN ORANGE	Standard L.O. 4.90 GHz Extended L.O. 5.50 GHz
Input interface ABE10XC/ABD10XC ABE10XCF/ABD10XCF	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	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