



20W Full C-Band Block Up Converter

KEY FEATURES

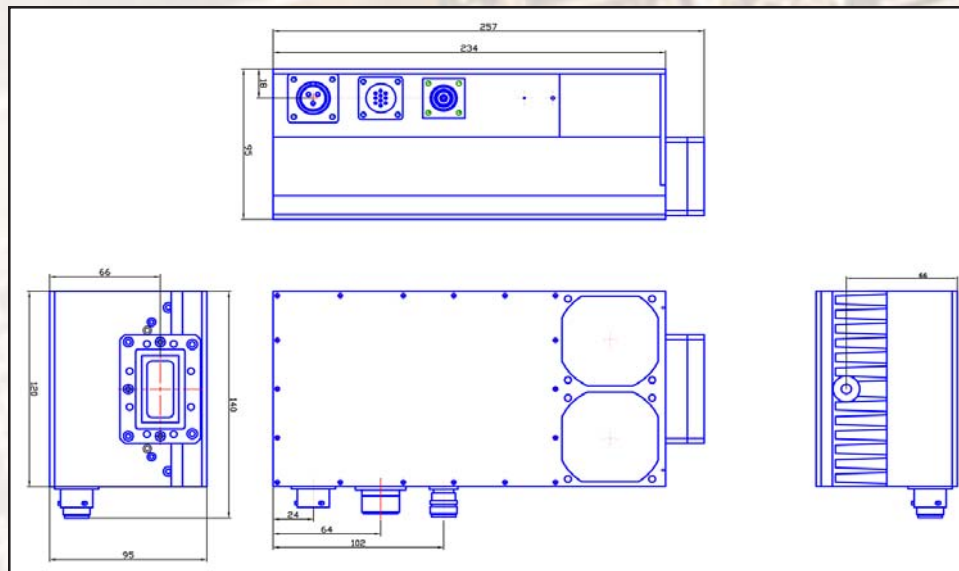
- ◆ Smallest package size and weight
- ◆ 5.875 - 7.200 GHz Output
- ◆ Double- L.O. (electronically switchable 4.9 & 5.5 GHz)
- ◆ Field-exchangeable (F/N) IF connector
- ◆ High Power Efficiency (20W min @P1dB)
- ◆ 18 - 72 VDC or 80 - 240 VAC Autoranging Power
- ◆ Power and Lock Status LED
- ◆ RoHS Compliant
- ◆ Advanced M & C Interface / FSK (Optional)
- ◆ Three-year Warranty

ABE20XC / ABE20XCF ABD20XC / ABD20XCF



This is a unique Full C-Band (5.875-7.200GHz) powered either with 18-72 VDC or 80-240 VAC (autoranging) 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





20W Full C-Band Block Up Converter

TECHNICAL SPECIFICATIONS	
RF Frequency	5.875 to 7.200 GHz
Local Oscillator - Electronically Switchable	4.90 and 5.5 GHz
IF Frequency	950 to 1.700 MHz
Output Power @ P1dB G.C.P.	20W (+43 dBm min.)
IF Connector	N-Type or F-Type - field exchangeable
Power Supply - Auto Ranging via MS connector:	
ABE20XC	18 – 72 VDC, 145 W Max
ABD20XC	80 - 240 VAC, 150 W Max
Output Interface	CPR 137
Linear Gain	68 dB nominal
Requirement for External Reference:	via IF cable
Frequency	10 MHz (sine-wave)
Input Power	-5 to +5 dBm @ Input port
Gain Variation	
Over 40 MHz	1.1 dB p_p
Over 500 MHz	1.6 dB p_p
Over Operating Temperature	1.2 dB p_p @ Fixed Frequency
Phase Noise	
	-100 dBc/Hz max. @ 100 KHz
	-90 dBc/Hz max. @ 10 KHz
	-80 dBc/Hz max @ 1 KHz
	-70 dBc/Hz max @ 100 Hz
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	All OK Standard LO 4.90 GHz
YELLOW	All OK Extended LO 5.5 GHz
Input Interface	
ABE20XC	50 Ohm (N-type IF In)
ABE20XCF	75 Ohm (F-type IF In)
Temperature Range (ambient)	
Operating	-40 deg C to +55 deg C
Storage	-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