



40W Full C-Band Block Up Converter

KEY FEATURES

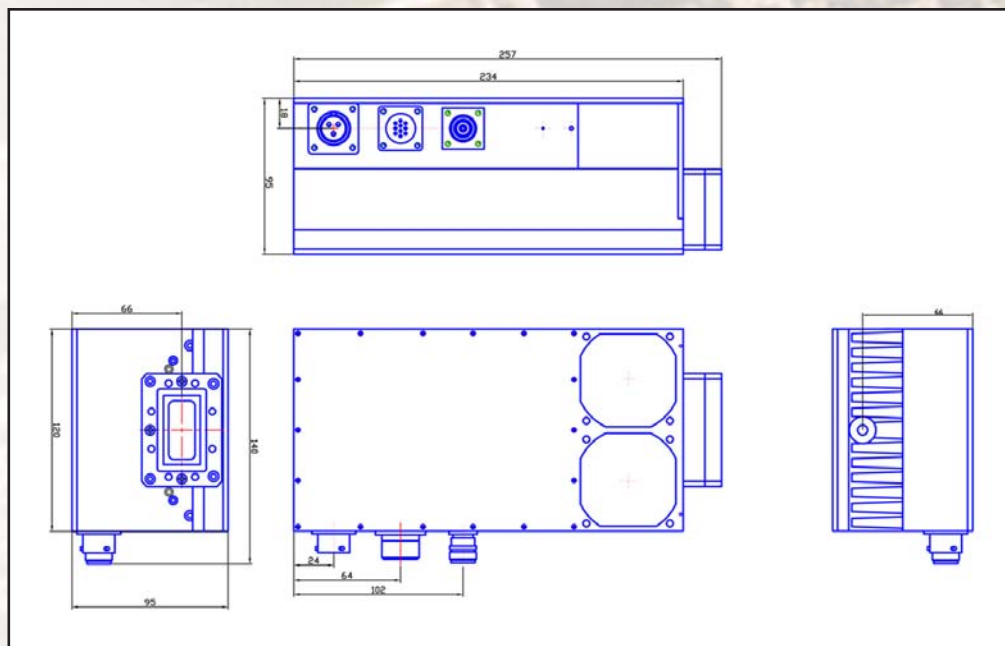
- ◆ 5.850 - 7.200 GHz output frequency
- ◆ Smallest package size and weight
- ◆ High power efficiency (40W min @P1dB over temperature)
- ◆ Double - L.O. (electronically switchable 4.9 & 5.5 GHz)
- ◆ Digital temperature compensation
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 80 - 240 VAC or 38 - 56 VDC auto-ranging power (182W max)
- ◆ Power and lock status LED
- ◆ Advanced M & C interface - combined RS-232/485 and optional FSK
- ◆ RoHS compliant
- ◆ Three-year warranty

ABD40XC / ABD40XCF ABC40XC / ABC40XCF



This is a unique Full C-Band (5.850-7.200 GHz) 40W 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 and Insat) transponders or satellites. It's light enough to be mounted on a feed horn of most antennas.

Mechanical Drawing





40W Full C-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	5.850 to 7.200 GHz
Local oscillator	4.90 and 5.50 GHz
IF frequency	950 to 1,700 MHz
Output power @ P1dB	40W (+46 dBm min.)
IF connector	N-type or F-type (field-exchangeable)
Power supply via MS connector ABD40XC-auto-ranging ABC40XC-auto-ranging	80-240 VAC, 181 W max 38-56 VDC, 182 W max
Output interface	CPR 137 G
Gain	67 dB min, 75 dB max
Requirement for external reference: frequency input power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port
IMD3	-28 dBc max
L.O. leakage	-30 dBm max
Spurious	-50 dBc max
Gain variation Over operating temperature	over 40 MHz 1.1 dB p_p over 500 MHz 1.6 dB p_p 1.2 dB p_p @ fixed frequency
Phase noise	-55 dBc/Hz max. @ 10 Hz
	-65 dBc/Hz max. @ 100 Hz
	-75 dBc/Hz max. @ 1 KHz
	-85 dBc/Hz max @ 10 KHz
	-95 dBc/Hz max. @ 100 KHz
	-120 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 RED GREEN YELLOW YELLOW blinking	Summary alarm All OK All OK standard L.O. 4.90 GHz All OK extended L.O. 5.50 GHz
Input interface ABD40XC / ABC40XC ABD40XCF / ABC40XCF	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