



10 W X-Band Block Up Converter

KEY FEATURES

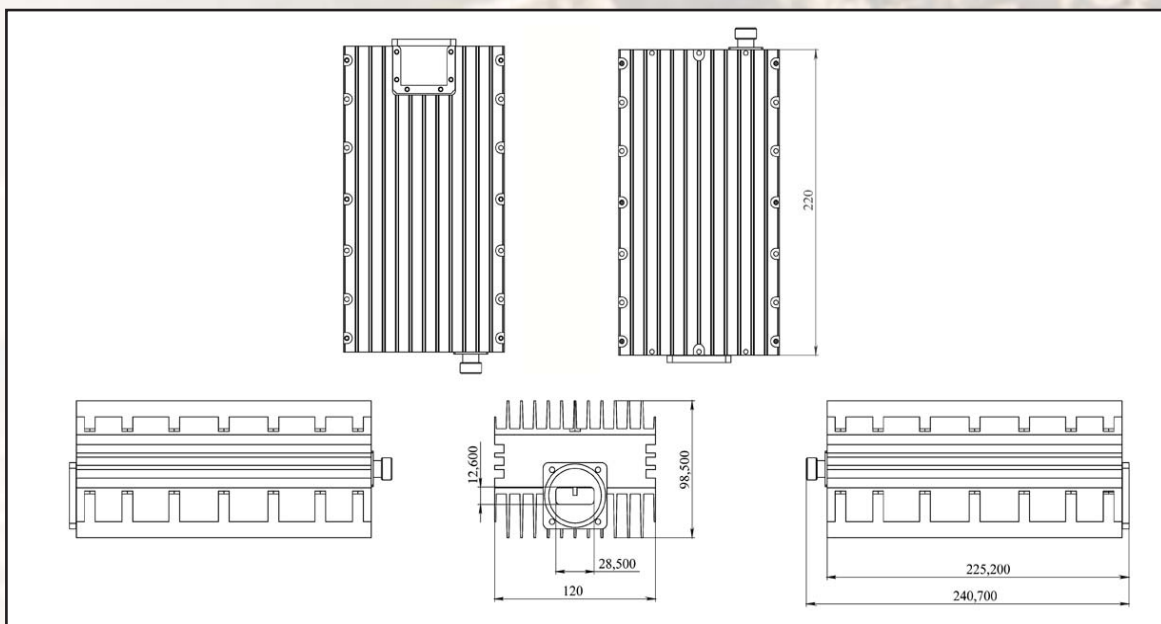
- ◆ Smallest package size and weight
- ◆ Auto-ranging 18-75 VDC power
- ◆ Low power consumption (<68W)
- ◆ Gain temperature compensation
- ◆ L.O. lock and amplifier LEDs
- ◆ Field-exchangeable (F/N) IF connector
- ◆ Optional advanced M&C-combined RS-232/485 interface and optional FSK
- ◆ Three-year warranty
- ◆ RoHS compliant

ABE10X / ABE10XF



This smallest and the lightest 10W L-To X-Band Block Up Converter is designed to be mounted on the feed horn. The unit is ideal for portable and mobile applications. Unit can be powered either with 24 or 48 VDC and consumes less than 68W.

Mechanical Drawing





10 W X-Band Block Up Converter

TECHNICAL SPECIFICATIONS	
RF frequency	7.90 to 8.40 GHz
Local oscillator	6.95 GHz
IF frequency	950 to 1,450 MHz
Output power @ P1dB min over temp.	10W (+40 dBm)
IF connector	N-type or F-type (field-exchangeable)
Power supply - auto-ranging	+18~+75 VDC via IF cable, 68 W max
Output interface	WR-112G, WR-90G, CPR-112G, CPR-137G
Gain	62 dB min., 65 dB nominal
IMD3	-29 dBc max
L.O. leakage	-33 dBm max
Spurious	-50 dBc max
Gain variation	0.7 dB p_p 2.0 dB p_p
Over operating temperature	2.2 dB p_p @ fixed frequency
Requirement for external reference	via IF cable
frequency	10 MHz (sine-wave)
input power	-5 to +5 dBm @ input port
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	20 dB max
Input V.S.W.R.	2 : 1 max
Output V.S.W.R.	2 : 1 max.
Mute	Shut off the BUC in case of L.O. unlocked
Input interface	ABE10X ABE10XF 50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Status LED	RED GREEN YELLOW Summary alarm All OK Power On
Temperature range (ambient)	
operating	-40 deg C to +55 deg C
storage	-40 deg C to +75 deg C
Dimensions & housing	240.7 (L) x 120 (W) x 98.5 (H) mm 9.47" (L) x 4.72" (W) x 3.87" (H)
Weight	2.5 kg (5.5 lbs) max