



10W C-Band Block Up Converter

KEY FEATURES

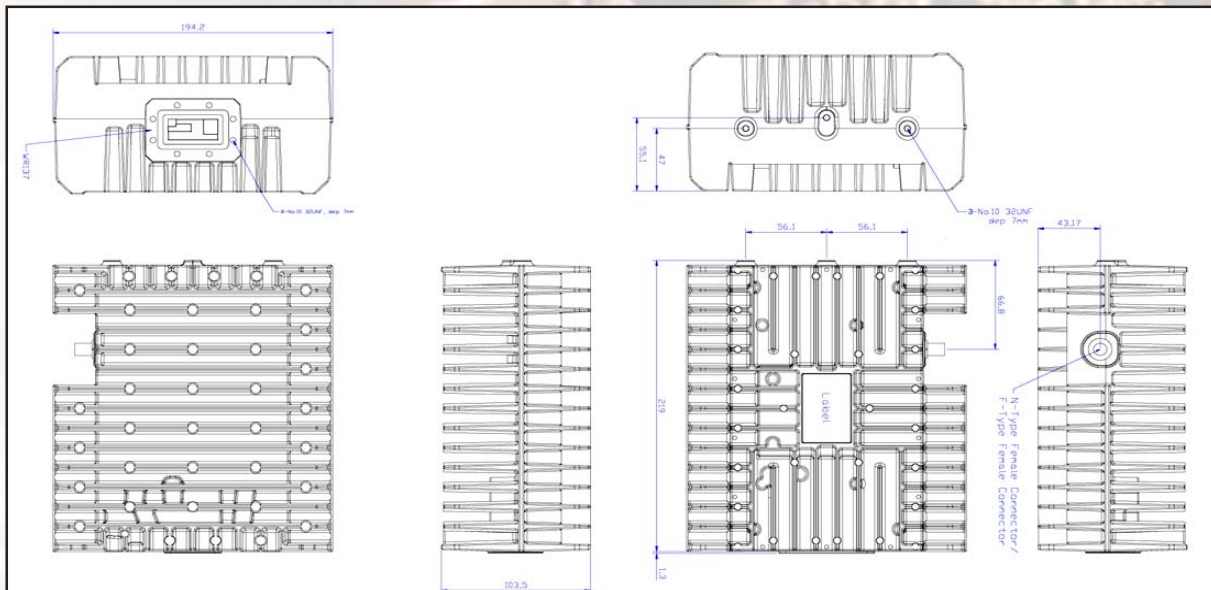
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ “No cooling fan” solution
- ◆ Input side connector
- ◆ Powered through IF cable Option
- ◆ Low Power Consumption (<77W)
- ◆ High Power Efficiency (10W min @P1dB over temperature)
- ◆ 24VDC/48VDC/48VDC via MS connector Input Power options
- ◆ RoHS Compliant
- ◆ Two year Warranty

ABA10C / ABA10CF



This small and light weight 10W L-To C-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current consumption allows user to pass DC supply voltage via IF cable. The unit is ideal for network and point to point, data distribution, portable and emergency applications.

Mechanical Drawing





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TECHNICAL SPECIFICATIONS	
RF Frequency	5.85 to 6.425 GHz
Local Oscillator	4.90 GHz
IF Frequency	950 to 1,525 MHz
Output Power @ P1dB min over temp.	10W Linear (+40 dBm min.)
IF Connector	N-Type or F-Type
Power Supply	ABA10C +18 VDC~+24 VDC via IF Cable 77 W max ABB10C +36 VDC~+60 VDC via IF Cable 75 W max ABC10C +36 VDC~+60 VDC via MS Conn. 75 W max
Output Interface	CPR-137 Grooved
Linear Gain	54 dB Min., 64 dB nominal
Gain Variation	1.5 dB p_p
Over 50 MHz	4.0 dB p_p
Over 575 MHz	4.0 dB p_p @ Fixed Frequency
Over Operating Temperature	
Requirement for External Reference	via IF cable
Frequency	10 MHz (sine-wave)
Input Power	-5 to +5 dBm @ Input port
Phase Noise	-30 dBc/Hz max. @ 10 Hz -60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz -100 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	ABA10C 50 Ohm (N-type IF In) ABA10CF 75 Ohm (F-type IF In)
Temperature Range (ambient)	
Operating	-40 deg C to +55 deg C
Storage	-40 deg C to +75 deg C
Dimensions & Housing	217 (L) x 194 (W) x 103 (H) mm 8.7" (L) x 7.7" (W) x 4.1" (H)
Weight	4.2 kg (9.3 lbs) max