



10W C-Band Block Up Converter

KEY FEATURES

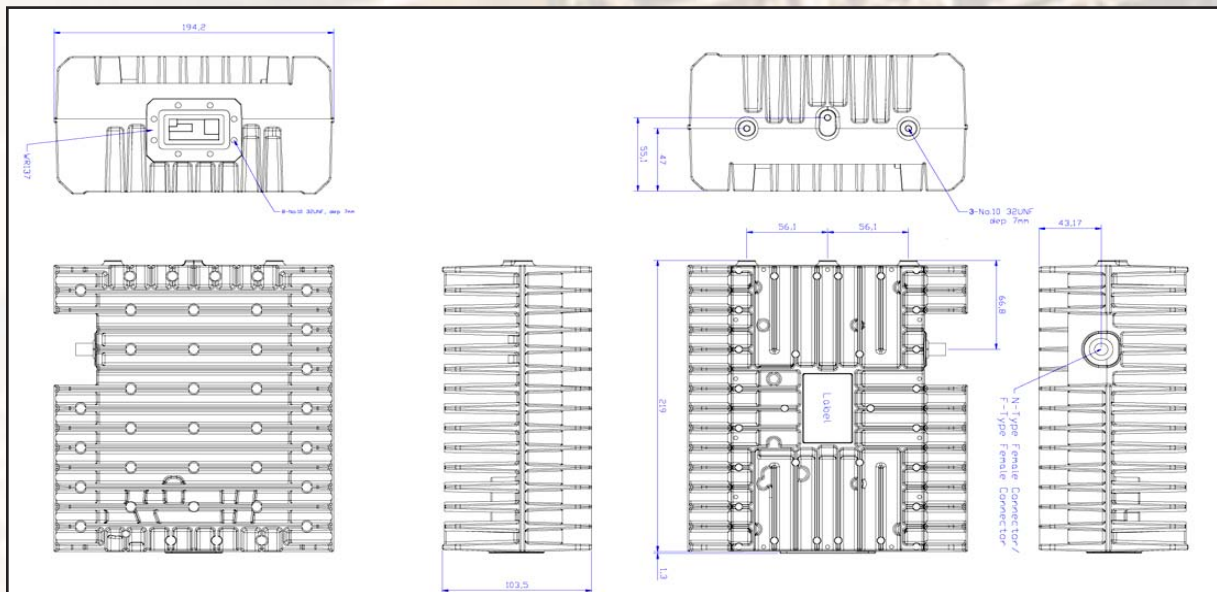
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ “No cooling fan” solution
- ◆ Input side connector
- ◆ Powered through IF cable option
- ◆ Low power consumption (<77W)
- ◆ High power efficiency (10W min @P1dB over temperature)
- ◆ 24VDC / 48VDC / 48VDC via MS connector input power options
- ◆ Standard, Palapa and Extended C-Band options
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA10C / ABA10CF ABA10CP / ABA10CPF ABA10CE / ABA10CEF



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	ABA10C ABA10CP ABA10CE	5.850 to 6.425 GHz 6.425 to 6.725 GHz 6.725 to 7.025 GHz
Local oscillator	ABA10C ABA10CP ABA10CE	4.90 GHz, non-inverting 5.275 GHz, non-inverting 5.75 GHz, non-inverting
IF frequency	ABA10C ABA10CP ABA10CE	950 to 1.525 MHz 1.150 to 1.450 MHz 975 to 1.275 MHz
Output power @ P1dB min over temp.		10W (+40 dBm min.)
IF connector		N-type or F-type
Power supply	ABA10C ABB10C ABC10C	+18 VDC~+24 VDC via IF cable 77 W max +36 VDC~+60 VDC via IF cable 75 W max +36 VDC~+60 VDC via MS conn. 75 W max
Output interface		CPR-137 Grooved
Gain		54 dB min., 64 dB nominal
IMD3		-28 dBc max
L.O. Leakage		-45 dBm max
Spurious		-50 dbc max
Gain variation	over 50 MHz over 575 MHz	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		-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		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 ABA10CF	50 Ohm (N-type IF in) 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