

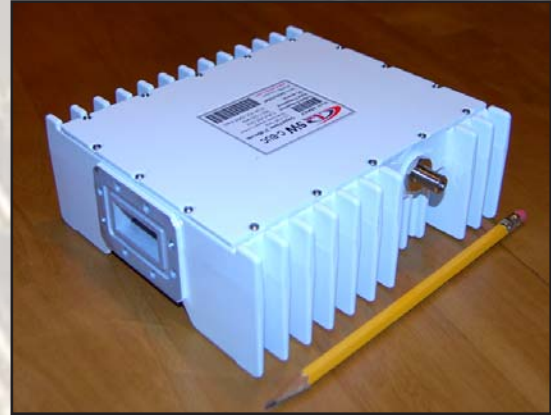


5W C-Band Block Up Converter

KEY FEATURES

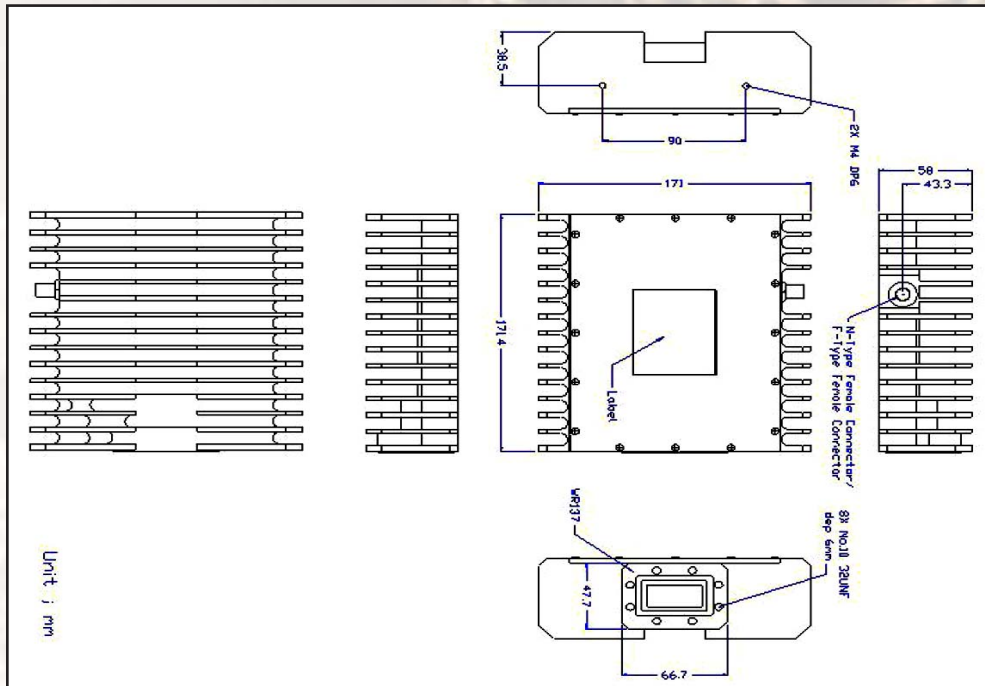
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<46W)
- ◆ High power efficiency (5W min @P1dB over temperature)
- ◆ Standard, Palapa and Extended C-Band options
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA5C / ABA5CF
ABA5CP / ABA5CPF
ABA5CE / ABA5CEF



This small and light weight 5W L-To C-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (≤ 2 amps) 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





5W C-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF frequency	ABA5C ABA5CP ABA5CE	5.850 to 6.425 GHz 6.425 to 6.725 GHz 6.725 to 7.025 GHz
Local oscillator	ABA5C ABA5CP ABA5CE	4.90 GHz, non-inverting 5.275 GHz, non-inverting 5.75 GHz, non-inverting
IF frequency	ABA5C ABA5CP ABA5CE	950 to 1,525 MHz 1,150 to 1,450 MHz 975 to 1,275 MHz
Output power @ P1dB min over temperature		5W (+37 dBm min.)
IF connector		N-type or F-type
Power supply		+15 VDC~+24 VDC via IF cable 46 W max
Output interface		CPR-137 Grooved
Gain		60 dB nominal
IMD3		-30 dBc max
L.O. Leakage		-45 dBm max
Spurious		-50 dBc max
Gain variation	over 40 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	ABA5C ABA5CF	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		175 (L) x 160 (W) x 64 (H) mm 6.89" (L) x 6.52" (W) x 2.52" (H)
Weight		1.8 kg (3.97 lbs) max