



6W C-Band Block Up Converter

ABA6C / ABA6CF

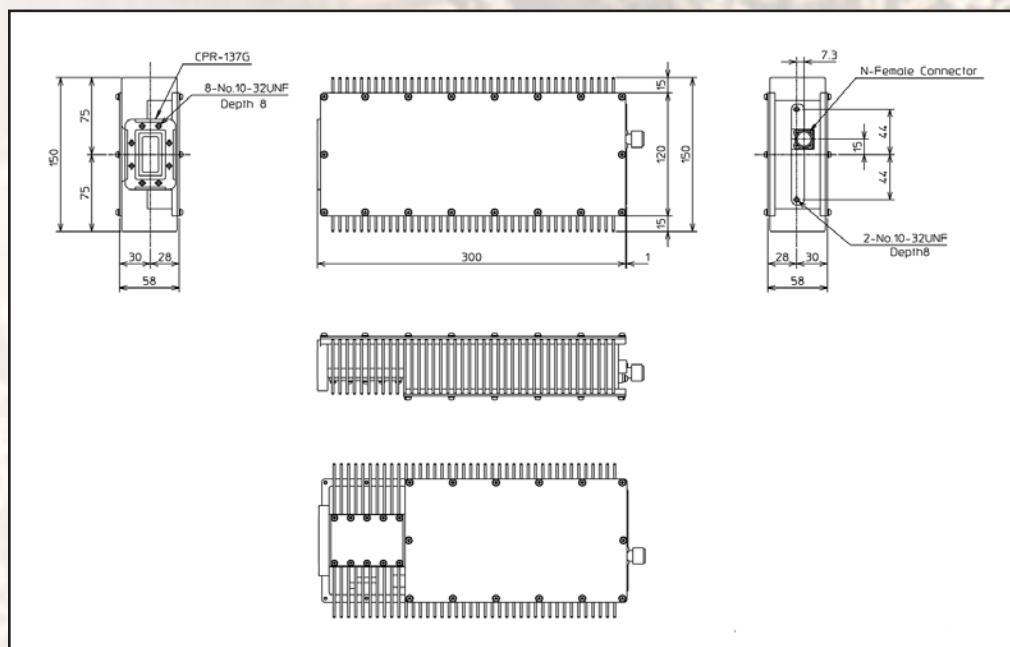
KEY FEATURES

- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<46W)
- ◆ High power efficiency (6W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three year warranty



This small and light weight 6W 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





6W C-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	5.850 to 6.425 GHz
Local oscillator	7.375 GHz, non-inverting
IF frequency	950 to 1,525 MHz
Output power @ P1dB min over temperature	6W (+38 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
Linear gain	60 dB nominal
Gain variation	
over 40 MHz	1.0 dB p_p
over 575 MHz	2.0 dB p_p
Over operating temperature	2.0 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	ABA6C ABA6CF
	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	300 (L) x 150 (W) x 58 (H) mm 12.0" (L) x 6.0" (W) x 2.32" (H)
Weight	3.0 kg (6.6 lbs) max