



6W C-Band Block Up Converter

KEY FEATURES

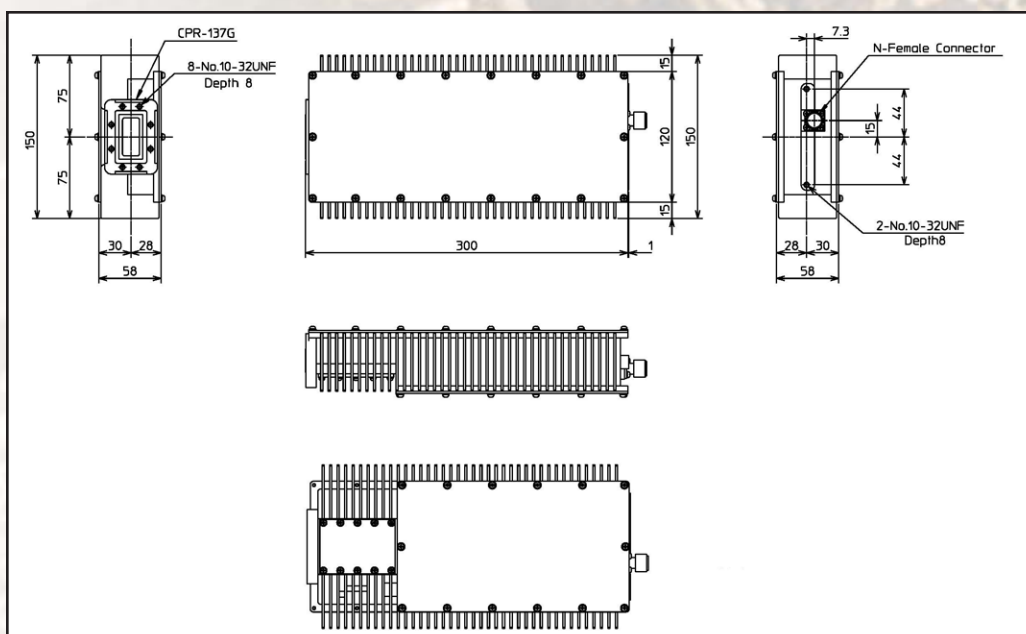
- ◆ Smallest package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption(<46W)
- ◆ High power efficiency(6W min @P1db over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA6C/ABA6CF



This is the smallest and lightest 6W L-To C-Band Block Up Converter and it is designed to be mounted on the feed horn. This unit is ideal for portable and mobile applications. High power efficiency resulting in low current (<2 amps) consumption allows user to pass DC supply voltage via IF cable.

Mechanical Drawing





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TECHNICAL SPECIFICATIONS

RF Frequency	ABA6C	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 temp.		6W (+38 dBm min.)
IF connector		N-type or F-type
Power supply – auto-ranging		+15 VDC~+24 VDC via IF cable 46 W max
Output interface		CPR-137 Grooved
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	50 Ohm (N-type IF in)
	ABA6CF	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