



20W C-Band Block Up Converter

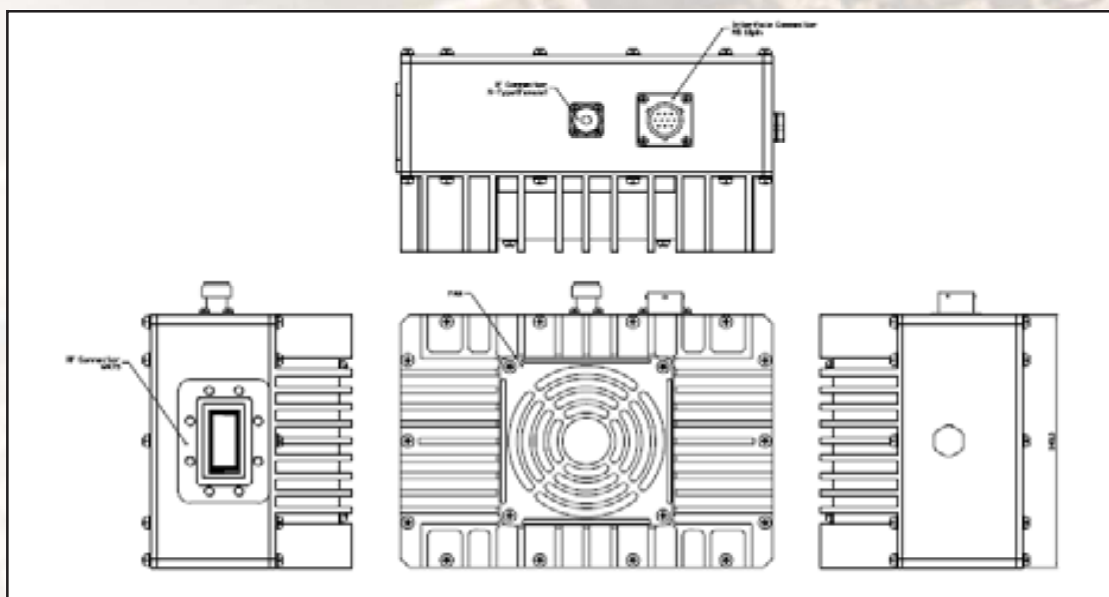
ABK20C / ABK20CF

KEY FEATURES

- ◆ Smallest in industry package size and weight
- ◆ Temperature compensation
- ◆ High power efficiency (20W min @P1dB over temperature)
- ◆ 48VDC or 24VDC via MS connector power options
- ◆ RoHS compliant
- ◆ M & C interface (optional)
- ◆ Two year warranty



Mechanical Drawing





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TECHNICAL SPECIFICATIONS

RF frequency	ABK20C	5.850 to 6.625 GHz
Local oscillator	ABK20C	4.90 GHz
IF frequency	ABK20C	950 to 1.725 MHz
Output power @ P1dB G.C.P.		20W (+43 dBm min.)
IF connector		N-type or F-type
Power via MS	ABK20C ABL20C	48VDC 160 W max 24VDC 165 W max
Output interface		CPR 137
Linear gain		67 dB nominal
Requirement for external reference:		via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port
Gain variation	over 40 MHz over 500 MHz	2.0 dB p_p 2.5 dB p_p
Over operating temperature		2.0 dB p_p @ fixed frequency
Phase noise		-90 dBc/Hz max. @ 100 KHz -80 dBc/Hz max. @ 10 KHz -70 dBc/Hz max @ 1 KHz -60 dBc/Hz max @ 100 Hz
Noise figure		15 dB max
Input V.S.W.R.		2 : 1 max
Output V.S.W.R.		2 : 1 max.
Mute		Shut off the HPA if L.O. unlocked
Spurious		-50 dBc @ 43 dBm output power
Input interface	ABK20C ABK20CF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Temperature range (ambient)		
operating		-40 deg C to +55 deg C
storage		-55 deg C to +85 deg C
Dimensions & housing		208 (L) x 141 (W) x 110 (H) mm 8.3" (L) x 5.6" (W) x 4.4" (H)
Weight		3.6 kg (8.1 lbs) max