



20W C-Band Block Up Converter

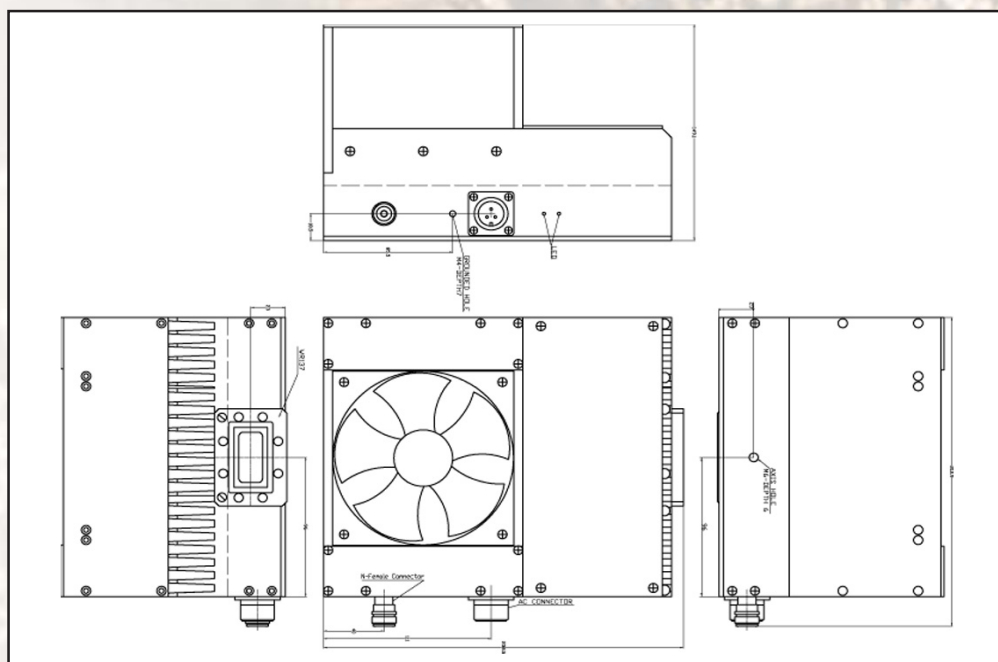
KEY FEATURES

- ◆ Smallest package size and weight
- ◆ Temperature Compensation
- ◆ Standard / Palapa / Extended C-Band Options
- ◆ High Power Efficiency (20W min @P1dB over temperature)
- ◆ 110/220 VAC Autoranging via MS connector Input
- ◆ Power and Lock Status LED
- ◆ RoHS Compliant
- ◆ M & C Interface (Optional)
- ◆ Two year Warranty

ABD20C / ABD20CF
ABD20PC / ABD20PCF
ABD20EC / ABD20ECF



Mechanical Drawing





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TECHNICAL SPECIFICATIONS

RF Frequency	ABD20C ABD20CP ABD20CE	5.850 to 6.425 GHz 6.365 to 6.725 GHz 6.725 to 7.025 GHz
Local Oscillator	ABD20C ABD20CP ABD20CE	4.90 GHz 5.29 GHz 5.75 GHz
IF Frequency	ABD20C ABD20CP ABD20CE	950 to 1.525 MHz 1.075 to 1.435 MHz 975 to 1.275 MHz
Output Power @ P1dB G.C.P.		20W Linear (+43 dBm min.)
IF Connector		N-Type or F-Type
Power Supply Auto Ranging		110/220 VAC, 47-63 Hz, 160 W Max
Output Interface		CPR 137
Linear Gain		68 dB nominal
Requirement for External Reference:		via IF cable Frequency 10 MHz (sine-wave) Input Power -5 to +5 dBm @ Input port
Gain Variation	Over 40 MHz Over 500 MHz	2.0 dB p_p 3.8 dB p_p
Over Operating Temperature		4.0 dB p_p @ Fixed Frequency
Phase Noise		-100 dBc/Hz max. @ 100 KHz -90 dBc/Hz max. @ 10 KHz -80 dBc/Hz max @ 1 KHz -70 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
Status LED	GREEN RED	LO is Locked and Power is Normal Power is Normal, LO is Unlocked
Input Interface	ABD20C ABD20CF	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		237 (L) x 182 (W) x 150 (H) mm 9.4" (L) x 7.3" (W) x 6.0" (H)
Weight		4.9 kg (11 lbs) max