Ka-Band 10W / 20W Block Up Converters

Applications

- High power BUCs for VSAT
- SatCom Applications

Features

- 40/43dBm min. Output Power
- Based on GaN Technology
- Very Low Power Consumption
- Small Size & Light Weight
- DC Input Range 36~70VDC (Optional)
- Internal Reference / M&C Function (Optional)

Model	KMU290310B01-10W	KMU288291B02-20W
RF Frequency	29.0~29.5/29.5~30.0/30.0~30.5/30.5~31.0GHz 29.0~30.0 / 30.0~31.0GHz	28.85~29.15GHz
IF Frequency	950~1450MHz (500MHz BW) 950~1950MHz (1GHz BW)	950~1200MHz
LO Frequency	28.05/28.55/29.05/29.55GHz 28.05/29.05GHz	27.9GHz
Output Power (min)	40dBm	43dBm
Gain (min)	62dB	65dB
Gain Variation over Frequency	2 dBp-p max. @ any 54 MHz 4 dBp-p max. @ over 500MHz bandwidth	
Gain Variation over Temperature	4 dBp-p max.	
IMD3	-26dBc max. @ Plinear (37dBm / 40dBm)	
Spurious In Band Out of Band	 -60 dBc -50 dBc	
Input VSWR	2:1 max.	
Output Load VSWR	2 :1 max.	
Phase Noise	-63 dBc/Hz @ 100Hz	
	-73 dBc/Hz @ 1KHz	
	-83 dBc/Hz @ 10KHz	
	-93 dBc/Hz @ 100KHz	
	-103 dBc/Hz @ 1MHz	
DC Power	+36~+70VDC	
Power Consumption(max)	100W	180W
M&C (Optional)	Monitor : Output power, Lock Status, Temperature	
	Control : Attenuator, Mute, LO selection	
	Interface : RS-232/RS-485	
Dimension (DC model)	233 x 140 x 88 mm	233 x 140 x 88 mm with fan cooling
Weight	3.5kg max.	
Temperature Range	Operation : -40 to +55°C	
	Storage : -40°C to +75°C	

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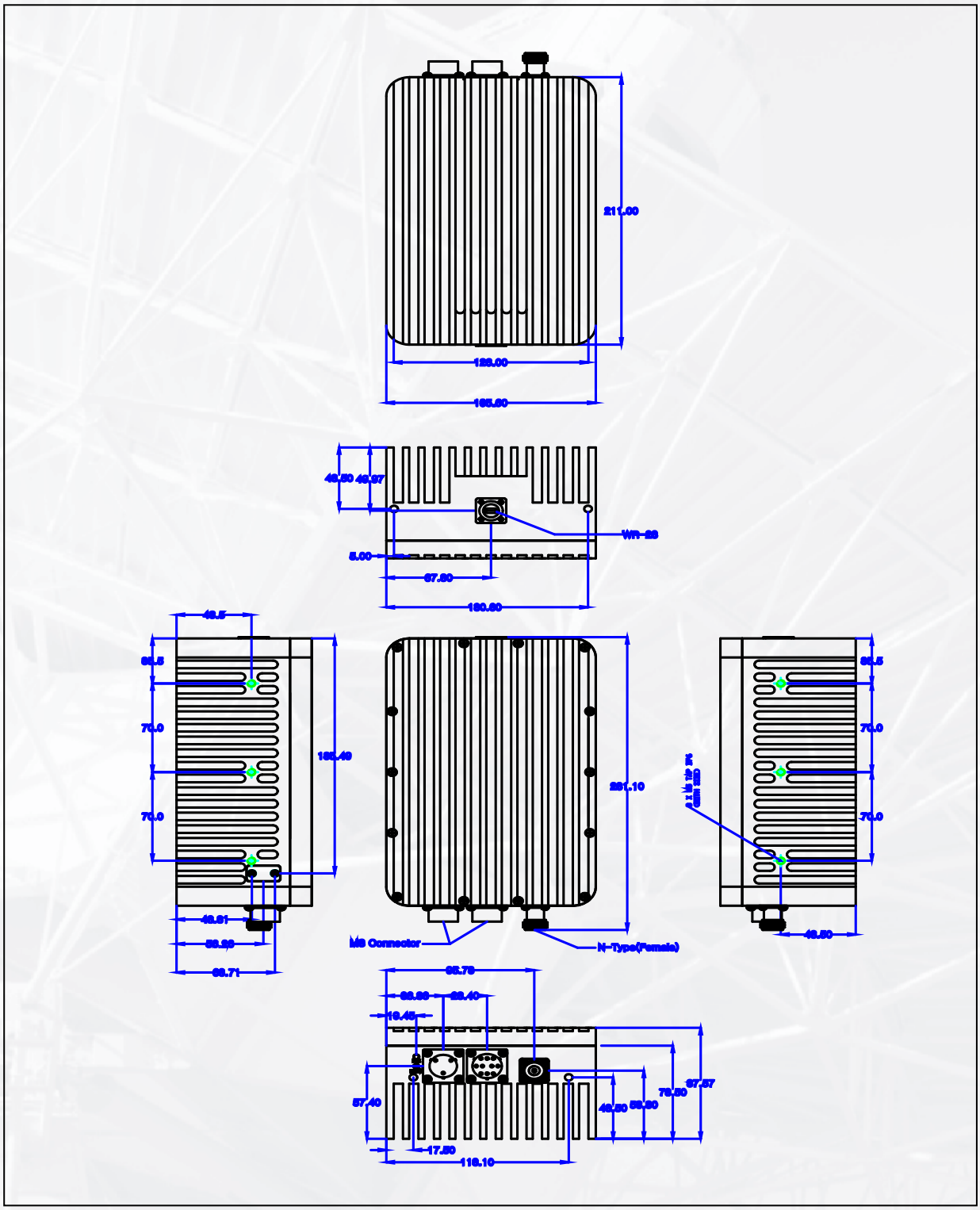
Mechanical Outline (KMU290310B01-10W)



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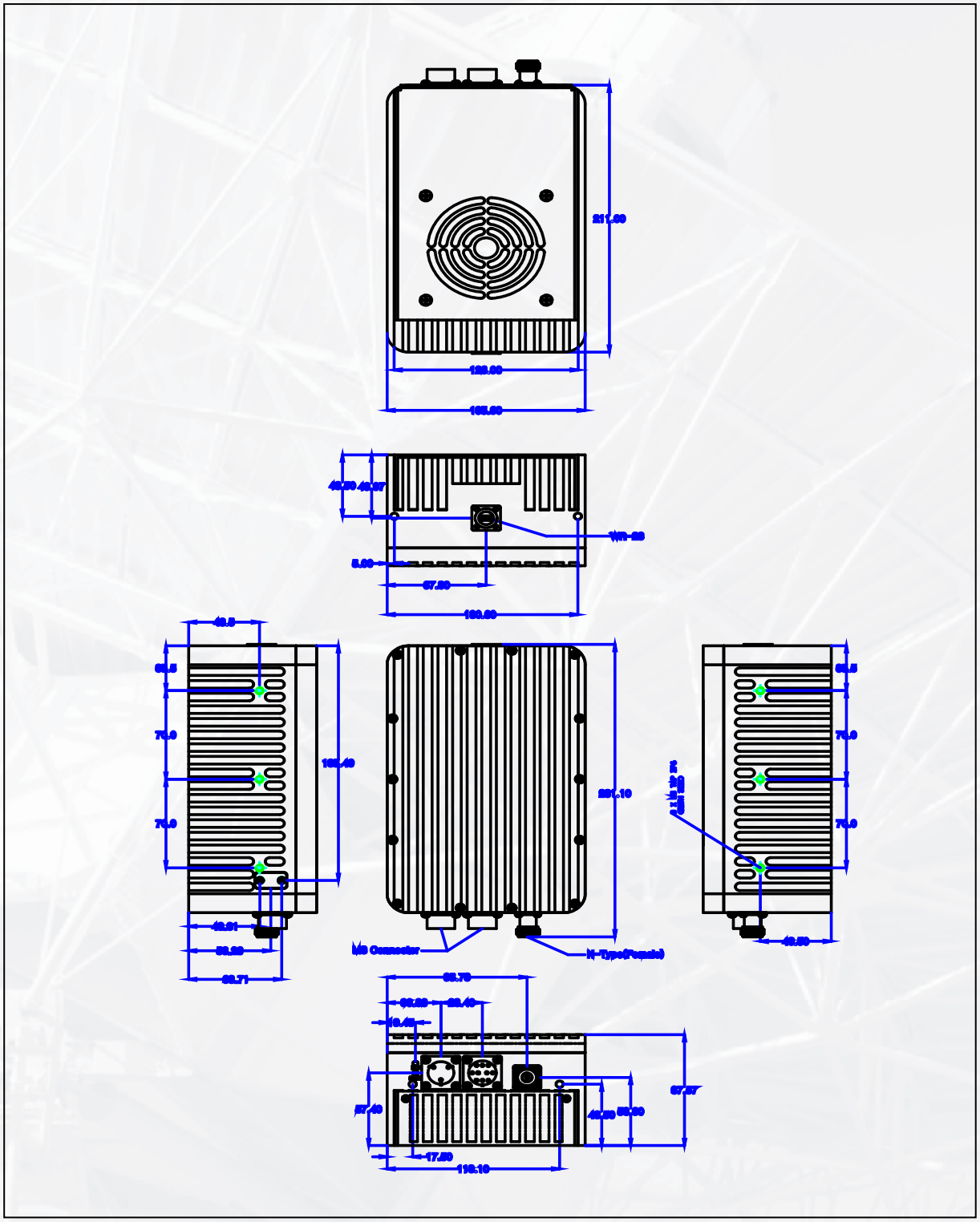
Mechanical Outline (KMU290310B02-20W)



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