



Ka-Band 20W BUC

Key Features:

- * Smart Size only 157×103×75mm
- * Extreme Stability, Reliability and Performance
- * High Efficiency and Low Consumption
- * Built in IF/RF Detector
- * Built-in Ultra Receive Band Reject Filter
- * Extreme GaN Linearity and Efficiency
- * Exceeds ALL IESS-308/309 Phase Noise Standards
- * Weather-Proof IP65 Standard

Optional Features:

- * Built in internal Reference Optional
- * RS232&485 and RS232&Ethernet Optional
- * 18—36V and 36—72V Power Supply Optional

Parameter	Model No.		
	MT1910		
Optional Frequency	RF (GHz)	IF (GHz)	LO(GHz)
	29—30	1.4—2.4	27.6
	29.5—30	0.95—1.45	28.55
	29—30&30—31	1—2	28&29
	27.652 —28.388 & 28.172 —29.071	1.052 —1.788 &0.972 —-1.871	26.6&27.2
Reference Frequency	10MHz 0dBm±5dB		
Small Signal Gain	68dB nominal,63dB min		
Gain Adjustment	20 dB in 0.5 dB steps nominal		
Gain Variation Over frequency at fixed temp	1 dB p-p over 40 MHz; 3 dB p-p over 500 MHz; 5 dB p-p over 1000 MHz		
Gain Variation Over temp at fixed frequency	4 dB p-p		
Saturated Output Power	43.5 dBm min.		



Rated Output Power	43 dBm
IM3 at 3 dB total power back-off from Rated Output Power	-25dBc
Phase Noise	-63 dBc/Hz @ 100Hz; -73 dBc/Hz @ 1KHz; -83 dBc/Hz @ 10KHz; -93 dBc/Hz @ 100KHz
Noise Power Density Transmit	-76 dBm/Hz
Noise Power Density Receive	-156 dBm/Hz
Output Spurious	-60 dBc
IF Input VSWR	1.5:1
RF Output VSWR	1.35:1

Mechanical Parameter

IF Input Connector&Impedance	Type N Female 50 Ohms
RF Output Connector	WR28
DC and M&C Connector	PT02E-14-12P
LED Indicator	red,PLL unlock,blue,PLL lock
DC Power	48W (36-60V) 24/28V (18-36V) Optional
DC Power Draw (at Rated Power)	180W max
Size	157×103×75mm
Weight	1.8kg
Operating Temperature (Ambient Air)	-40 to +60 °C
Weatherproof	IP 65



Picture

