

MT 13.75... 14.5GHz

Ku Band 40W BUC



### Key Features:

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- \* Smart Size only 160×105×80mm
- \* Extreme Stability, Reliability and Performance
- \* High Efficiency and Low Con-sumption
- \* Built in IF RMS Detector
- \* Built-in Ultra Receive Band Reject Filter
- \* Extreme GaN Linearity and Efficiency
- \* Exceeds ALL IESS-308/309 Phase Noise Standards
- \* Weather-proof IP67 Standard

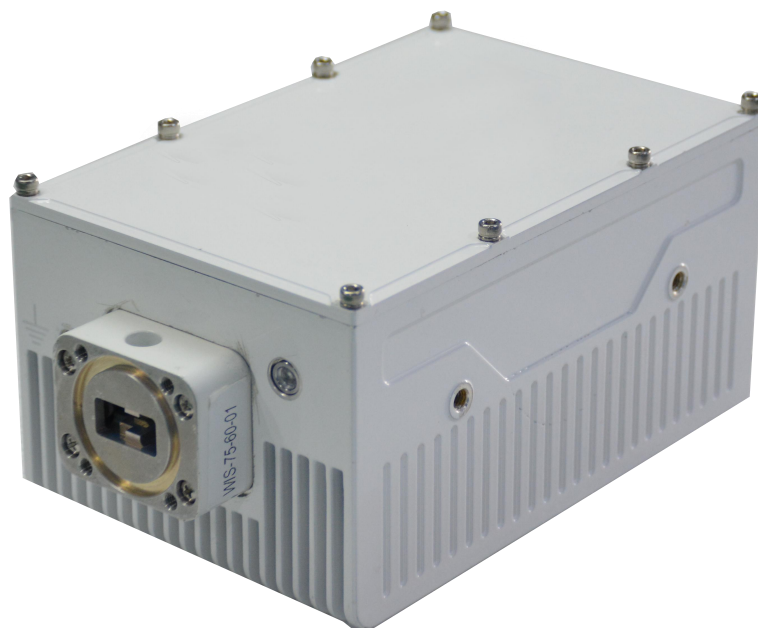
### Optional Features:

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- \* Built in 10MHz OCXO Optional
- \* RS232&485 and RS232&Ethernet Optional
- \* 18—36V and 36—60V Power Supply Optional

### Picture:

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**Parameter :**

Model No.			
MTA 1315-40			
	RF (GHz)	IF (GHz)	LO(GHz)
Optional Frequency	14-14.5	0.95—1.45	13.05
	13.75-14.5	0.95—1.7	12.8
	14—14.5	2.5—3	11.5
	13.75—14.5	2.25—3	11.5
	Reference Frequency	10MHz 0dBm±5dB	
Small Signal Gain	70 dB nominal,65 dB 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; 4 dB p-p over 750 MHz		
Gain Variation Over temp at fixed frequency	4 dB p-p		
Saturated Output Power	46 dBm min.		
Rated Output Power	46 dBm		
IM3 at 3 dB total power back-off from Rat-ed Output Power	-25 dBc		
Phase Noise	-65 dBc/Hz @ 100Hz -75 dBc/Hz @ 1KHz -85 dBc/Hz @ 10KHz -95 dBc/Hz @ 100KHz		
Noise Power Density Transmit	-76 dBm/Hz		
Noise Power Density Receive	-156 dBm/Hz		
Output Spurious	-60 dBc		

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IF Input VSWR	1.5:1
RF Output VSWR	1.25:1
IF Input Connector&Impedance	Type N Female 50 Ohms
RF Output Connector	WR75
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 )	250W max
Size	160×105×80mm
Weight	2.1kg
Operating Temperature (Ambient Air)	-40 to +60 °C
Weather-proof	IP 67