



## Ku-Band 200W BUC

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### Key Features:

- \* Smart Size only 400×250×200mm
- \* Extreme Stability, Reliability and Performance
- \* High Efficiency and Low Consumption
- \* 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 10MHz OCXO Optional
- \* RS232&485 and RS232&Ethernet Optional
- \* 18—36V and 36—72V Power Supply Optional

| Parameter                                   | Model No.  |           |         |
|---|--|-----------|---------|
|   | MT1909   |           |         |
| Optional Frequency                          | RF (GHz)   | IF (GHz)  | LO(GHz) |
|   | 14-14.5  | 0.95—1.45 | 13.05   |
|   | 13.75-14.5   | 0.95—1.7  | 12.8    |
| Reference Frequency                         | 10MHz 0dBm±5dB   |           |         |
| Small Signal Gain                           | 70 dB min  |           |         |
| Gain Adjustment                             | 20 dB in 0.25 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                                   | 53.5 dBm min.  |
| Rated Output Power                                       | 53 dBm   |
| IM3 at 3 dB total power back-off from Rated 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  |
| IF Input VSWR  | 1.5:1  |
| RF Output VSWR   | 1.3:1  |

## Mechanical Parameter

|                                     |                               |
|-------------------------------------|-------------------------------|
| IF Input Connector&Impedance        | Type N Female 50 Ohms         |
| RF Output Connector                 | WR75                          |
| AC and M&C Connector                | Y50DP-1203ZJ10                |
| LED Indicator                       | red,PLL unlock,Green,PLL lock |
| DC Power                            | AC220V±15%                    |
| DC Power Draw (at Rated Power )     | 1500W max                     |
| Size                                | 400×250×200mm                 |
| Weight                              | 20kg max                      |
| Operating Temperature (Ambient Air) | -40 to +55 °C                 |
| Weatherproof                        | IP 65                         |



Picture

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