

BUC, 12W Ku Transmitter

Specifications:

ELECTRICAL

• Input Interface & Signals

INTERFACES:

- Coax connector F-Type female (75Ω)
- Optional integration with L bracket support /Grounding hole (M4 thread)

INPUT SIGNALS:

- DC
- External Reference
- L Band IF Signals

• Output Interface & Signals

- Interface: Waveguide WR-75 grooved (M4 thread * 4)
- LED Indicator (Green – L.O locked; Red – L.O unlocked)
- Output signals: KU Band RF Signals

• IF Input Characteristics:

- Frequency range: 950-1450MHz
- Max Input level (without damage): +13dBm
- VSWR: 2.0:1

• Local Oscillator Characteristics:

- LO Frequency: 13050 MHz
- Phase Noise (SSB)
 - 100Hz: -55dBc/Hz
 - 1KHz: -65dBc/Hz
 - 10KHz: -75dBc/Hz
 - 100KHz: -85dBc/Hz
 - 1MHz: -95dBc/Hz
- External Reference Requirement
 - Frequency: 10MHz
 - Form: Sinus wave
 - Uncertainty: -35ppm to +35ppm
 - Power level: -5dBm to +5dBm
 - Phase Noise (SSB)
 - 100Hz: -125dBc/Hz
 - 1KHz: -135dBc/Hz
 - 10KHz: -140dBc/Hz

• RF Output Characteristics:

- Frequency range: 14000-14500MHz
- VSWR: 2.5 : 1
- Typical Saturated output power: 12W (40.8dBm)
- Typical output power @P1dB: 10W (40dBm)
- Min output power @P1dB Vs. all operational conditions (frequency and temperature): 8W (39dBm)
- ACPR @39dBm output power: 26dBc typical
- Small Signal Gain: 65dB typical
- Mute function: RF output will turn off when L.O is unlocked

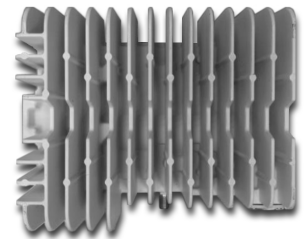
• DC Characteristics:

- Operational Voltage Range: +18 to +60V
- Non-damage Voltage Range: 0V to +60V
- Power Consumption: 90W max

PHYSICAL AND ENVIRONMENTAL

- **Weight:** <3.3Kg
- **Dimensions:** < (L)220 x (W)175 x (H)100 mm
- **Humidity:** 0 to 100%
- **Operational Temperature Range:** -40°C to +55°C
- **Storage Temperature Range:** -40°C to +75°C
- **Water/Dust proof (IP Code):** IP67

To learn more about SageNet's BUC 12W Ku Transmitter, visit our website, www.sagenet.com, or call 1-866-480-2263.



Features

- Higher performance, efficient operation
- Compact & lightweight design
- Fanless package for demanding outdoor environments