

**C-BAND SATELLITE TRANSMITTER**

- **LOW PHASE NOISE**
- **HIGH RELIABILITY**
- **FM, PM MODULATION**
- **SWEEP FUNCTION**
- **BUILT-IN SINE GENERATOR**
- **MANUAL&REMOTE CONTROL**

This unit is a competitively priced C-band FM/PM modulated transmitter intended for use in satellite telecommunications. It is a compact, reliable unit with state of the art electrical specifications.

Electrical characteristics:

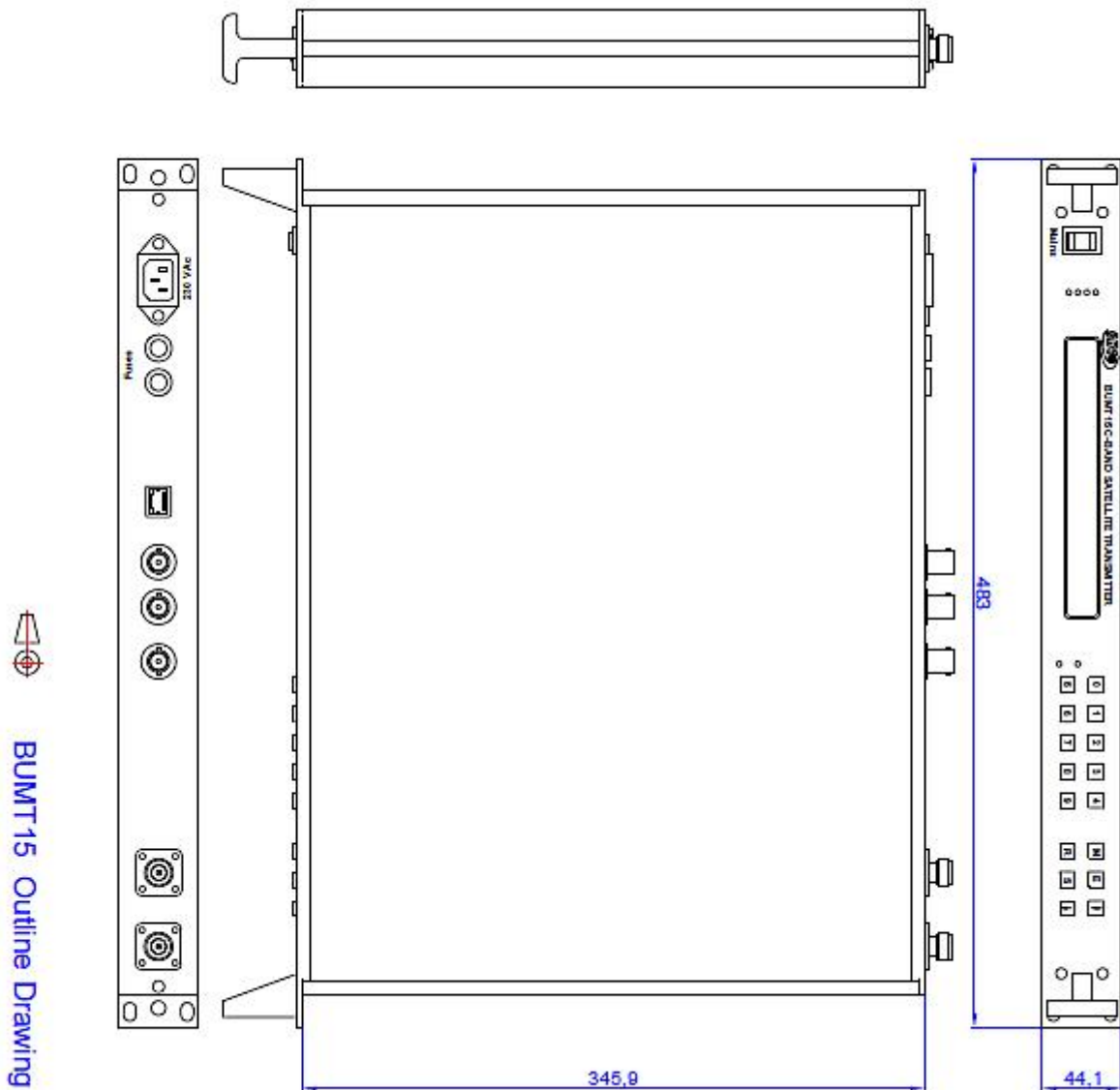
Output Frequency	6300 – 6600 MHz
Frequency Step	1 kHz
Frequency Stability	<u>better than</u> +/- 2 ppm
Phase Noise	< - 90 dBc/Hz @ 1 kHz < - 110 dBc/Hz @ 100 kHz
Output Level	+ 5 dBm to -75 dBm selectable in 0.5 dB steps (ON/OFF selection)
Output Accuracy	+/- 0.5dB in full frequency range
Monitor Output Level	- 10 dB below the main output
Output Impedance	50 ohm
Spurious	-60 dBc typ. (- 50 dBc max.)
Harmonics	-55 dBc typ. (- 50 dBc max.)
Modulation	OFF/ FM / PM (selectable)
FM Deviation	+/- 100 kHz to +/- 600 kHz selectable in 1 kHz
PM Deviation	up to 2.5 radians selectable in 0.05 radians
Modulation Signal Shape	Sine wave
Modulation Frequency	100 Hz – 500 kHz
Modulation Inputs	TC and Tone (two independent inputs)
Modulation Inputs Signal Level	1 Vpp
FM, PM Distortion	3 % max.
PM Non-linearity	2 % max.
Modulation Input Impedance	50 ohm
Sweep Function	OFF/Continuous / Sweep Hold (selectable)
Sweep Range	up to +/- 200 kHz in 1 kHz steps
Sweep Rate	from 1 to 100 kHz/sec in 1 kHz/sec steps
Sweep Direction	positive and negative
Sweep Hold Step	1 kHz, 5 kHz, 25 kHz, 125 kHz,
Built-in Generator	from 100 Hz to 100 kHz in 10 Hz steps
Wave Shape of Generator	Sine
Generator Frequency Stability	better than +/- 2 ppm
Generator Amplitude	0 to 5 Vpp selectable in 50 mV steps@50 ohm
Connectors (on rear panel)	N – female (RF and Monitor) BNC – female (Modulation Inputs) BNC – female (Generator Output) RJ45 LAN (Remote Control)
Manual Control	Front Panel Keyboard for all Settings and Selections
Remote Control	LAN, TCP/IP
Power Supply	100 V – 240 V / 40VA / 50 Hz
Operating Temperature Range	+10°C to +40°C
Size	1U High 19" Rack


Specifications are subject to change without notice.



Outline dimensions (mm):

1 U High 19" RACK



 BUMT15 Outline Drawing



BUMT15

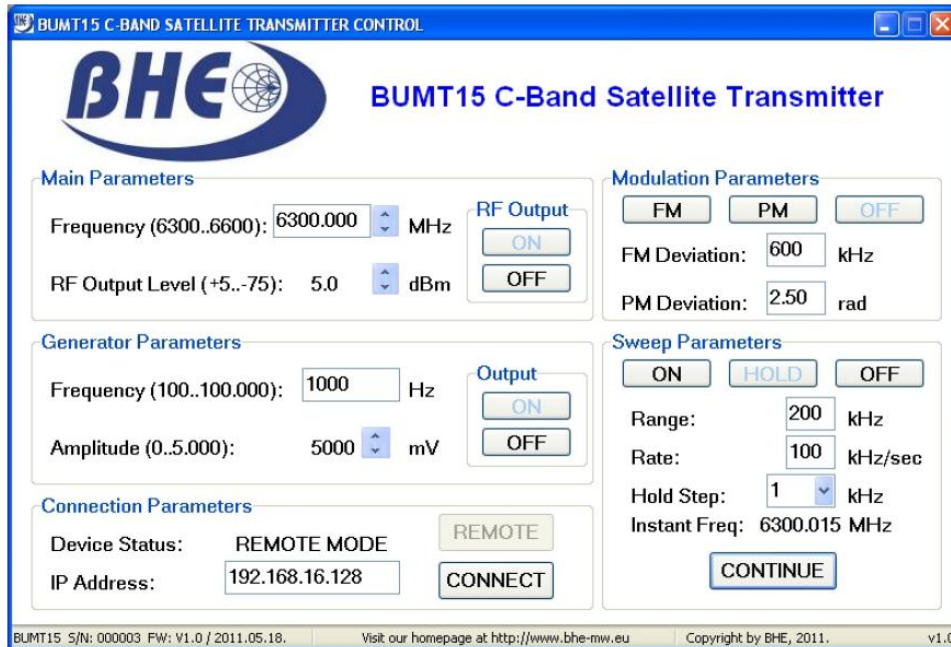
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Pictures:





Control software



Phase Noise Plot@6600MHz

