



## GENERAL DESCRIPTION

The BUC Series is EM Research's low power consumption, low phase noise, low spur block up-converter solution. This series has applications in laboratory and satellite communication settings. For improved LO leakage, the BUC Series can be combined with EM Research's external filter, or one already on hand.

## BUC SERIES FEATURES

- Gain control
- Low power consumption
- Low phase noise
- Low spurs
- Temperature compensation

## BUC SERIES OPTIONS

- Wide choice of frequency ranges
- CAN, RS-232, I2C or SPI control
- Internal / External references
- Pairing with external filter for improved LO leakage
- Two packages available,
  - 2.5" x 3.5" x 0.6"
  - 4.25" x 3.0" x 0.95" with mounting tabs

## GENERAL SPECIFICATIONS

External Reference	10 MHz
Internal Reference	±5 ppm, Stability
Power Output	Up to +11 dBm
Harmonics	-30 dBc (with ext. filter)
Spurs	-60 dBc Max
Supply Options	+7 to +24 VDC
Current	850 mA Max
Gain Adjust Range	+15 dB Min, 0.1 dB Steps



## APPLICATIONS

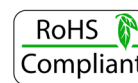
- Laboratory testing
- Laboratory conversion
- Satellite communication

## TYPICAL PHASE NOISE (dBc / Hz)

Offset	18.4 GHz	28.55 GHz
1 KHz	-76	-73
10 KHz	-86	-83
100 KHz	-96	-93
1 MHz	-113	-113
10 MHz	-123	-123

Final product specifications will vary upon customer's parameters

See more at  
**WWW.EMRESEARCH.COM**





# EMRESEARCH<sup>®</sup>

FULL SPECTRUM INNOVATION

