

Innovative Communication Solutions

BUC **KU-BAND 100W** ATOMBKU100



NORSAT ATOM SERIES BUCS

Compared to equivalent products, ATOM series BUCs are:

- Up to 68% smaller and lighter
- Up to 60% more power efficient
- More flexible with RF and configuration options

The Norsat ATOM series of block upconverters (BUC) are among the smallest, lightest, and most energy efficient transmitters available. The high efficiency of ATOM reduces power consumption significantly, delivering considerable operational cost savings over the lifetime of the device.

RF CONFIGURATIONS

Transmit Frequency

Standard band 14.0 to 14.5 GHz LO Frequency 13.05 GHz 13.75 to 14.5 GHz Extended band LO Frequency 12.8 GHz Selectable band *Custom within range 12.25 to 18.0 GHz

Input Frequency

Standard band 950 to 1450 MHz Extended band 950 to 1700 MHz

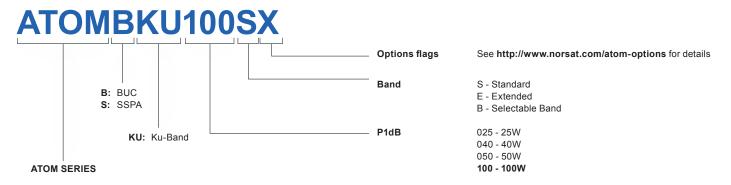
OPTIONS

The following items are standard: White paint, N-Type input connector, WR-75 waveguide output, Fan cooling, DC Power.

Available options include: Baseplate Cooling, EMI/EMC Filter, Surge+Protect Filter, Fast Switching, 3 Phase AC, SMA Input Connector, WR-62 Waveguide Output, Adjustable Group Delay

Accessories: Power Supply, Bracket, Waveguides, Cables, Adaptors.

HOW TO ORDER





North America +1 800 644 4562

Asia Pacific +1 604 821 2813 **EMEA**

+44 1522 730 800

South America +1 604 821 2835

Online www.norsat.com

KU-BAND 100W BUC-ATOMBKU100

RF SPECIFICATIONS

Power Output (P1dB)

Noise Figure Phase Noise

Fwd Monitor (15 dB Range) @ CF

Conversion Gain Gain Variation over operating band

Gain Variation over any 40 MHz Gain Variation over temperature

Input VSWR **Output VSWR**

Spurious @ rated power

AM/PM Conversion @2dB below

2nd Harmonic @ 3dB below rated power

100W

15 dB

ENVIRONMENTAL & PHYSICAL

Operating Temperature with fans

Storage Temperature

Outline Dimensions

Enclosed Accessories

Weight

-82 dBc/Hz at 10 KHz -92 dBc/Hz at 100 kHz -102 dBc/Hz at 1 MHz

-72 dBc/Hz at 1 KHz

± 1.0 dB 60 dB min

6 dB max p-p 1.5 dB max p-p

3 dB max p-p

2.0:1

2.0:1 -50 dBc

2.5°/dB rated power

-45 dBc

-40 to +60°C (-40° to +140°F)

-54 to + 80°C (-65° to + 176°F)

297 L x 135 W 169 H mm (11.7 x 5.3 x 6.4")

6.9 kg (15.3 lbs)

Screws, gasket, M&C mating connector, power mating connector

INTERFACES

RF Input Connector

RF Output Connector

N Type

WR-75 (WR-62 above 15 GHz)

MONITOR & CONTROL

M&C Interface

RS-485

M&C Connector

MIL-26482 Series 1 Receptacle,

Shell Size 12, 10 Pins

Mute Control

High

Fully configurable (mute enable: high or low, mute default: enabled or disabled

Low

0.0 - 0.8V3.0 - 5.0V

Thermal Shutdown Temperature

90°C (Accuracy ± 3°C)

POWER

Power Connector

Input Voltage

Power Consumption with fans

20 - 56 VDC

610W @Psat (Typical)

415W @ 3dB backoff from P1dB

375W @ Quiescent (no signal input)

60W muted

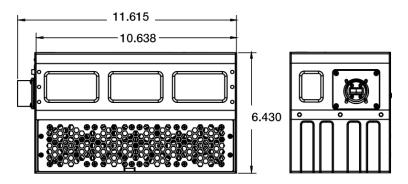
MIL-26482 Series 1 recepticle

Shell size 12, 4 pins

MECHANICAL DIAGRAM

5.330 *Measurements in inches







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