

Innovative Communication Solutions

BUC **KA-BAND 25W** ATOMBKA025



NORSAT ATOM SERIES BUCS

Compared to equivalent products, ATOM series BUCs are:

- Up to 20% smaller
- Up to 50% lighter
- Internal isolation to provide reflected power protection

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

Military band Commercial band 1 30.0 to 31.0 GHz 29.0 to 30.0 GHz

Input Frequency

Military band Commercial band 1 1 to 2 GHz 950 to 1950 MHz

* Custom within range

OPTIONS

The following items are standard:

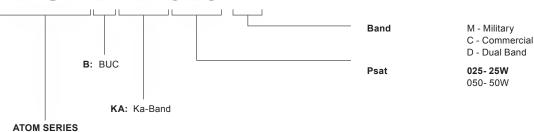
White paint, EMI/EMC Filter, Auto-Sensing Internal/External Reference, Low Voltage Operation, Fast Switching.

Available options include:

Baseplate Cooling, Ethernet M+C, 1275D Surge + Protect Filter.

HOW TO ORDER

ATOMBKA025-M





North America +1 800 644 4562

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

South America +44 1522 730 800 +1 604 821 2835

Online www.norsat.com

KA-BAND 25W BUC-ATOMBKA025

RF SPECIFICATIONS

Output Power (Psat) 44 dBm > 41 dBm **Output Power (Plin)**

-72 dBc/Hz at 100 Hz **Phase Noise** -72 dBc/Hz at 1 KHz -82 dBc/Hz at 10 KHz

-92 dBc/Hz at 100 kHz -102 dBc/Hz at 1 MHz

-30 dBc

-25 dBc

Noise Figure 60 dB min **Conversion Gain** Gain Variation over 40MHz +/- 0.5 dB Gain Variation over 500 MHz +/- 1.5 dB Gain Variation over 1000 MHz +/- 2.0 dB +/- 2 dB Gain Variation over temperature -55 dBc Spurious in Band

ENVIRONMENTAL & PHYSICAL

-40 to +60°C (-40° to +140°F) **Operating Temperature** -54 to +105°C (-65° to +221°F) Storage Temperature

Outline Dimensions 7.10 x 3.64 x 6.83" 2.9 kg (6.3 lbs) Weight

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

POWER

20 - 56 VDC Input Voltage **Power Consumption** 200W @ Psat 150W @ Plin 25W muted

Power Connector MIL-26482 Series 1 Shell size 12, 4 pins

MONITOR & CONTROL

Discrete Mute Control Voltage ranges

Spectral Regrowth @ Plin 3rd Order Intermod @ Plin

0 - 0.8 V Low High 3.0 - 5.0 V Fully programmable

Mute default can be enabled or disabled

Mute enable can be high or low

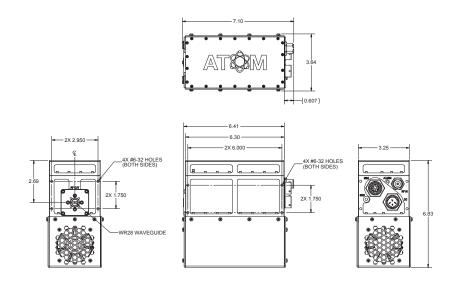
M&C Connector MIL-26482 Series 1 Shell size 12, 10 pins

M&C Signaling RS-485, RS-232 or Ethernet

INTERFACES

Input VSRW 1.5:1 **Output VSRW** 1.5 : 1 **RF Input Connector** Ν (50 Ώ) **RF Output Connector** WR-28

MECHANICAL DIAGRAM









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