



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	30.0 to 31.0 GHz
Commercial band 1	29.0 to 30.0 GHz

Input Frequency

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

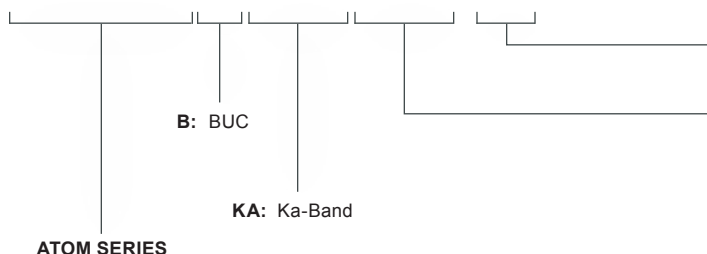
* Custom within range

OPTIONS

Baseplate Cooling	Fanless operation supporting external cooling systems
Ethernet	Ethernet M&C signalling

HOW TO ORDER

ATOMBKA025-M



Band	M - Military C - Commercial D - Dual Band
Psat	025- 25W 050- 50W



KA-BAND 25W BUC-ATOMBKA025

RF SPECIFICATIONS

Output Power (Psat)	44 dBm
Output Power (Plin)	> 41 dBm
Phase Noise	-72 dBc/Hz at 100 Hz -72 dBc/Hz at 1 KHz -82 dBc/Hz at 10 KHz -92 dBc/Hz at 100 kHz -102 dBc/Hz at 1 MHz
Noise Figure	15 dB
Conversion Gain	60 dB min
Gain Variation over 40MHz	+/- 0.5 dB
Gain Variation over 500 MHz	+/- 1.5 dB
Gain Variation over 1000 MHz	+/- 2.0 dB
Gain Variation over temperature	+/- 2 dB
Spurious in Band	-55 dBc
Spectral Regrowth @ Plin	-30 dBc
3rd Order Intermod @ Plin	-25 dBc

ENVIRONMENTAL & PHYSICAL

Operating Temperature	-40 to +60°C (-40° to +140°F)
Storage Temperature	-54 to +105°C (-65° to +221°F)
Outline Dimensions	7.10 x 3.64 x 6.83 in
Weight	2.9 kg (6.3 lbs)
Enclosed accessories	Screws, gasket, M&C mating connector, power mating connector

POWER

Input Voltage	20 – 56 VDC
Power Consumption	200W @ Psat 150W @ Plin 25W muted
Power Connector	MIL-26482 Series 1 Shell size 12, 4 pins

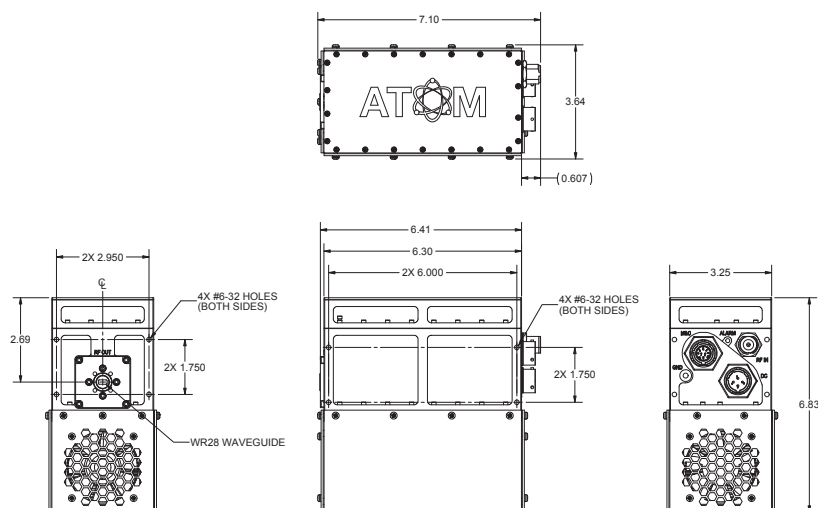
MONITOR & CONTROL

Discrete Mute Control Voltage ranges	
Low	0 - 0.8 V
High	3.0 - 5.0 V
Fully programmable	
Mute enable can be high or low	
Mute default can be enabled or disabled	
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	N (50 Ω)
RF Output Connector	WR-28

MECHANICAL DIAGRAM



Norsat
International Inc.

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