



Norsat  
International Inc.

Innovative Communication Solutions

# BUC

## KA-BAND 25W 50W

### ATOMBKA

#### SPECIFICATIONS



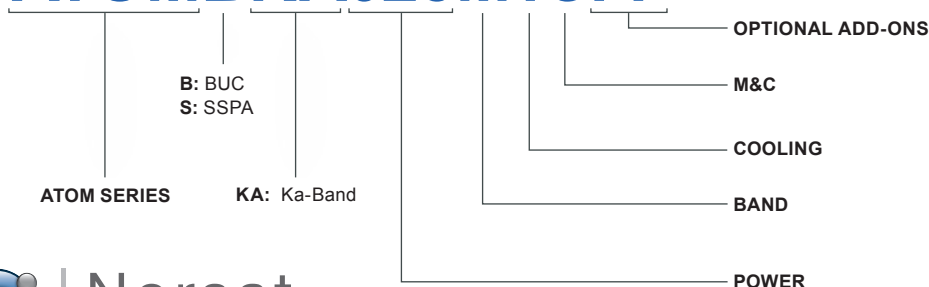
	ATOMBKA025	ATOMBKA050		
Output Power (Psat)	44 dBm min.	47 dBm min.	Input Voltage	+ 18V to + 56V DC via power connector
Phase Noise (SSB) max.	-66 dBc/Hz at 100Hz -76 dBc/Hz at 1kHz -86 dBc/Hz at 10kHz -96 dBc/Hz at 100kHz -106 dBc/Hz at 1MHz		Power Consumption	<b>025:</b> 285 W max. <b>050:</b> 580 W max.
Linear Gain	60 dB typ., 55 dB min., 65 dB max.	63 dB typ., 58 dB min., 58 dB max.	Power Connector	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins 58-533723-4P
Gain Flatness:	Over Full Band Over Any 54 MHz Over Temperature	≤ 3.0 dB p-p ≤ 1.0 dB p-p ≤ 2.0 dB p-p	Input (waterproof)	<b>BUC:</b> Type N Connector (50 Ohm) <b>SSPA:</b> SMA Connector (50 Ohm)
Output Spurious: In-Band Out-of-Band		≤ -60 dBc ≤ -60 dBc	Output (waterproof)	WR-28 waveguide grooved
Noise Power Density		-65 dBm/Hz in Tx -156 dBm/Hz in Rx	M&C Interface	<b>C:</b> RS-485 & RS-232, or <b>B:</b> RS-485 & Ethernet
Input VSWR	2.5 : 1 max.		Dimensions (L x W x H)	<b>025:</b> 140 mm x 80 mm x 170 mm <b>050:</b> 300 mm x 140 mm x 120 mm
Output VSWR	1.9 : 1 max.		Weight	<b>025:</b> 3.2 kg, 2.5 kg (with external baseplate) <b>050:</b> 6.9 kg, 5.9 kg (with external baseplate)
			Operating Temperature	-40 to +60°C
			Storage Temperature	-54 to +71°C
			Humidity	100% condensing
			External Ref Freq	10 MHz (sine-wave), -5 to +5 dBm
			Enclosed Accessories	Screws, Gasket, M&C Connector, Power Connector

## FREQUENCY BANDS

	M: Military	C: Commercial	D: Dual Band	
Transmit Frequency (GHz)	30.0 - 31.0	29.0 - 30.0	29.0 - 30.0	30.0 - 31.0
L.O. Frequency (GHz)	29.05	28.05	28.05 or	29.05
IF Frequency (MHz)	1000 - 2000	950 - 1950	950 - 1950	1000 - 2000

## HOW TO ORDER

### ATOMBKA025M1CFP



**BLANK:** No Add-on  
**F:** EMI/EMC Filter  
**P:** Surge Protection  
**FP:** EMI/EMC Filter & Surge Protection

**C:** RS-485 & RS-232  
**B:** RS-485 & Ethernet

**1:** Internal Fan  
**2:** External Baseplate

**M:** Military  
**C:** Commercial  
**D:** Dual Band

**025:** 25W  
**050:** 50W





# KA-BAND 25W 50W BUC: ATOMBKA

## MONITOR & CONTROL

<b>M&amp;C Interface</b>	RS-485 & RS-232, or RS-485 & Ethernet
<b>M&amp;C Connector:</b>	MIL-26482 Series 1 receptacle Shell Size 12, 10 Pins 58-533723-10P
<b>Mute Control:</b>	Fully configurable (mute enable: high or low, mute default: enabled or disabled)
<b>Low</b>	0.0 - 0.8V
<b>High</b>	3.0 - 5.0V
<b>Thermal Shutdown Temperature</b>	90°C (Accuracy $\pm 3^\circ\text{C}$ )

## OPTIONAL CONFIGURATION ADD-ONS

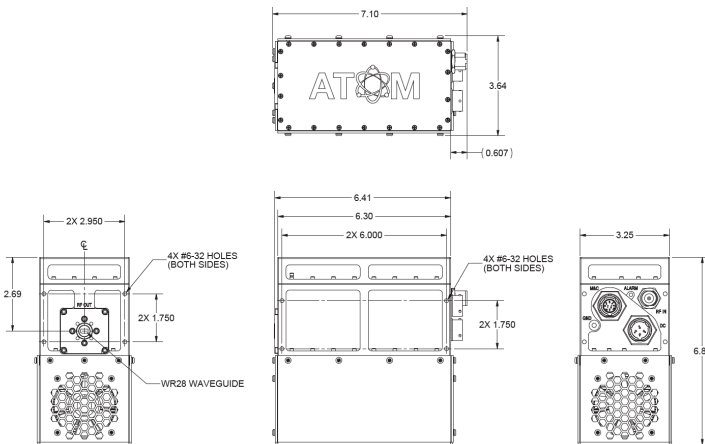
<b>EMI/EMC Filter:</b>	MIL-STD-461
<b>Surge Protection:</b>	MIL-STD-1275D

## OPTIONAL ACCESSORIES

<b>Power Supply</b>	<b>025:</b> PS300-AT1-(NA/UK/EU/IEC) <b>050:</b> PS600-AT1-(NA/UK/EU/IEC)
<b>M&amp;C Cable (10m)</b>	CABLEM+C-AT10

## MECHANICAL DIAGRAM

ATOMBKA025



ATOMBKA050

