



# BUC/SSPA

## KA-BAND 25W 50W

### ATOMBKA

#### SPECIFICATIONS



	ATOMBKA025	ATOMBKA050		
<b>Output Power (Psat)</b>	44 dBm min.	47 dBm min.	<b>Input Voltage</b>	+20V to +56V DC via power connector
<b>Plinear*</b>	41 dBm min.	44 dBm min.	<b>Power Consumption</b>	<b>025:</b> 285 W max. <b>050:</b> 580 W max.
<b>Phase Noise (SSB) max.</b>	-62 dBc/Hz at 100Hz -72 dBc/Hz at 1kHz -82 dBc/Hz at 10kHz -92 dBc/Hz at 100kHz -102 dBc/Hz at 1MHz		<b>Power Connector</b>	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins 58-533723-04P
<b>Linear Gain</b>	60 dB typ., 55 dB min., 65 dB max.		<b>Maximum Current @20 VDC</b>	<b>025:</b> 14.8A max. <b>050:</b> 29.0A max.
<b>Gain Flatness:</b>			<b>Input (waterproof)</b>	<b>BUC:</b> Type N Female (50 Ohm) <b>SSPA:</b> SMA Type 2.92mm Female (50 Ohm)
Over Full Band (25W)	≤ 3.5 dB p-p		<b>Output (waterproof)</b>	WR-28 waveguide grooved
Over Full Band (50W)	≤ 4.0 dB p-p		<b>M&amp;C Interface</b>	<b>C:</b> RS-485 & RS-232, or <b>B:</b> RS-485 & Ethernet
Over Any 40 MHz	≤ 1.0 dB p-p		<b>Dimensions (L x W x H) (excluding connectors)</b>	<b>025:</b> 140 mm x 80 mm x 170 mm <b>050:</b> 300 mm x 140 mm x 120 mm
Over Temperature	≤ 3.0 dB p-p		<b>Weight</b>	<b>025:</b> 3.2 kg, 2.5 kg (with external baseplate) <b>050:</b> 6.9 kg, 5.9 kg (with external baseplate)
<b>Output Spurious: In-Band</b>	≤ -55 dBc		<b>Operating Temperature</b>	-40 to +60°C
<b>Out-of-Band</b>	≤ -60 dBc		<b>Storage Temperature</b>	-54 to +71°C
<b>Noise Power Density</b>	-65 dBm/Hz in Tx -156 dBm/Hz in Rx		<b>Humidity</b>	100% condensing
<b>Input VSWR</b>	1.5 : 1 max.		<b>External Ref Freq</b>	10 MHz (sine-wave), -5 to +5 dBm
<b>Output VSWR</b>	1.9 : 1 max.		<b>Enclosed Accessories</b>	Screws, Gasket, M&C Connector, Power Connector

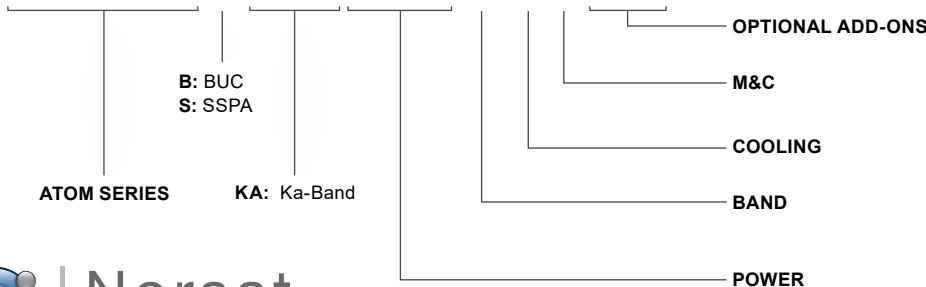
\*as per MIL-STD 188

## FREQUENCY BANDS

	M: Military	C: Commercial	D: Dual Band	
<b>Transmit Frequency (GHz)</b>	30.0 - 31.0	29.0 - 30.0	29.0 - 30.0	30.0 - 31.0
<b>L.O. Frequency (GHz)</b>	29.00	28.05	28.05 or	29.05
<b>IF Frequency (MHz)</b>	1000 - 2000	950 - 1950	950 - 1950	950 - 1950

## 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 ± 3°C)

### OPTIONAL CONFIGURATION ADD-ONS\*

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

\*Optional add-ons only available for 25W, please contact NORSAT for 50W add-ons

### OPTIONAL ACCESSORIES

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

### MECHANICAL DIAGRAM

