



# BUC GaN

## KU-BAND 20W 40W 80W

### ATOMBKUG

### SPECIFICATIONS



	ATOMBKUG020	ATOMBKUG040	ATOMBKUG080		ATOMBKUG020	ATOMBKUG040	ATOMBKUG080
<b>Linear Power* (Plin)</b>	40 dBm min.	43 dBm min.	46 dBm min.	<b>Input Voltage</b>	+ 18V to + 56V DC via power connector		
<b>Output Power (Psat)</b>	43 dBm min.	46 dBm min.	49 dBm min.	<b>Power Consumption</b>	105 W max.	195 W max.	370 W max.
<b>Phase Noise (SSB) max.</b>		-63 dBc/Hz at 100Hz -73 dBc/Hz at 1kHz -83 dBc/Hz at 10kHz -93 dBc/Hz at 100kHz -103 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>	70 dB typ., 65 dB min., 75 dB max.			<b>Input (waterproof)</b>	Type N Connector (50 Ohm)		
<b>Gain Flatness: @Plin</b>	<b>Over Full Band</b>	≤ 3.0 dB p-p		<b>Output (waterproof)</b>	WR-75 waveguide grooved		
	<b>Over Any 40 MHz</b>	≤ 1.5 dB p-p		<b>M&amp;C Interface</b>	RS-485 & RS-232 Ethernet		
	<b>Over Temperature</b>	≤ 3.0 dB p-p		<b>Dimensions (L x W x H)</b>	164 mm x 94 mm x 156 mm (6.45 in x 3.70 in x 6.15 in)		
<b>Output Spurious: In-Band</b>		≤ -60 dBc		<b>Weight</b>	2.24 kg (4.94 lb)	2.26 kg (4.98 lb)	2.30 kg (5.06 lb)
<b>Out-of-Band</b>		≤ -60 dBc		<b>Operating Temperature</b>	-40 to +60°C		
<b>Noise Power Density</b>		-65 dBm/Hz in Tx -156 dBm/Hz in Rx		<b>Storage Temperature</b>	-50 to +80°C		
<b>Input VSWR</b>		1.5 : 1 max.		<b>Humidity</b>	100% condensing		
<b>Output VSWR</b>		2.5 : 1 max.		<b>Enclosed Accessories</b>	Screws, Gasket, M&C Connector, Power Connector		

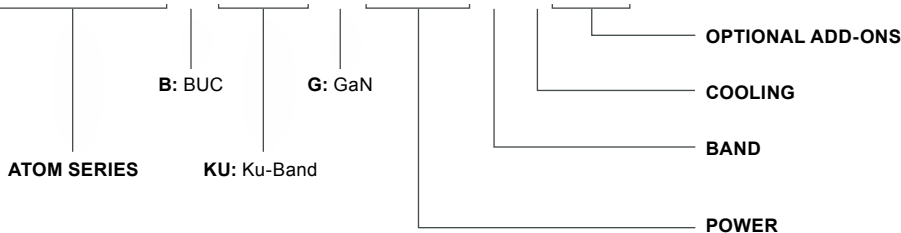
\*as per MIL-STD 188

### FREQUENCY BANDS

	S: Standard	E: Extended	L: Low
<b>Transmit Frequency (GHz)</b>	14.0 - 14.50	13.75 - 14.50	12.75 - 13.25
<b>L.O. Frequency (GHz)</b>	13.05	12.80	11.80
<b>IF Frequency (MHz)</b>	950 - 1450	950 - 1700	950 - 1450

### HOW TO ORDER

# ATOMBKUG020S1FP



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

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

**S:** Standard  
**E:** Extended  
**L:** Low

**020:** 20W  
**040:** 40W  
**080:** 80W



## KU-BAND 20W 40W 80W BUC: ATOMBKUG

### MONITOR & CONTROL

<b>M&amp;C Interface:</b>	<b>RS-485 &amp; RS-232</b>	MIL-26482 Series 1 receptacle Shell Size 12, 10 Pins 58-533723-10P
	<b>Ethernet</b>	MIL-26482 Series 1 receptacle Shell Size 10, 6 Pins 58-533722-06P
<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

### OPTIONAL CONFIGURATION ADD-ONS

<b>EMI/EMC Filter:</b>	MIL-STD-461
<b>Surge Protection:</b>	MIL-STD-1275D MIL-STD-1275E MIL-STD-704A

### OPTIONAL ACCESSORIES

<b>Power Supply</b>	<b>020 / 040:</b> PS300-AT1-(NA/UK/EU/IEC) <b>080:</b> PS600-AT1-(NA/UK/EU/IEC)
<b>M&amp;C Cable</b>	CABLEM+C-AT10

### MECHANICAL DIAGRAM

