



BUC/SSPA

KA-BAND 25W 50W

ATOMBKA

SPECIFICATIONS



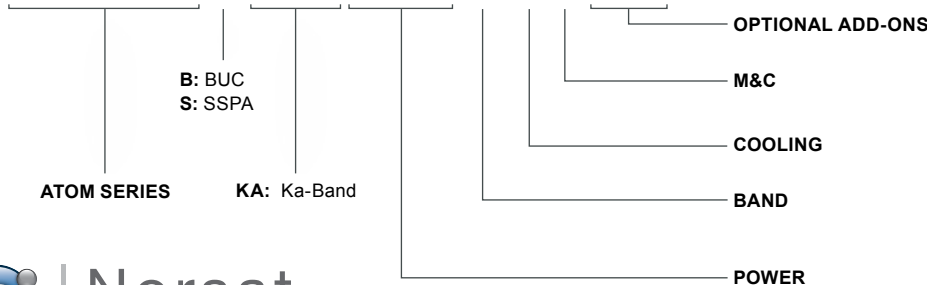
	ATOMBKA025	ATOMBKA050		
Output Power (Psat)	44 dBm min.	47 dBm min.	Input Voltage	+ 18V to + 56V DC via power connector
Plinear*	41 dBm min.	44 dBm min.	Power Consumption	025: 285 W max. 050: 580 W max.
Phase Noise (SSB) max.	-66 dBc/Hz at 100Hz -76 dBc/Hz at 1kHz -86 dBc/Hz at 10kHz -96 dBc/Hz at 100kHz -106 dBc/Hz at 1MHz		Power Connector	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins 58-533723-04P
Linear Gain	60 dB typ., 55 dB min., 65 dB max.	63 dB typ., 58 dB min., 68 dB max.	Input (waterproof)	BUC: Type N Connector (50 Ohm) SSPA: SMA Connector (50 Ohm)
Gain Flatness:	Over Full Band	≤ 3.0 dB p-p	Output (waterproof)	WR-28 waveguide grooved
	Over Any 54 MHz	≤ 1.0 dB p-p	M&C Interface	C: RS-485 & RS-232, or B: RS-485 & Ethernet
	Over Temperature	≤ 2.0 dB p-p	Dimensions (L x W x H)	025: 140 mm x 80 mm x 170 mm 050: 300 mm x 140 mm x 120 mm
Output Spurious:	In-Band	≤ -60 dBc	Weight	025: 3.2 kg, 2.5 kg (with external baseplate) 050: 6.9 kg, 5.9 kg (with external baseplate)
	Out-of-Band	≤ -60 dBc	Operating Temperature	-40 to +60°C
Noise Power Density		-65 dBm/Hz in Tx -156 dBm/Hz in Rx	Storage Temperature	-54 to +71°C
Input VSWR		2.5 : 1 max.	Humidity	100% condensing
Output VSWR		1.9 : 1 max.	External Ref Freq	10 MHz (sine-wave), -5 to +5 dBm
*as per MIL-STD 188			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

M&C Interface	RS-485 & RS-232, or RS-485 & Ethernet
M&C Connector:	MIL-26482 Series 1 receptacle Shell Size 12, 10 Pins 58-533723-10P
Mute Control:	Fully configurable (mute enable: high or low, mute default: enabled or disabled)
Low	0.0 - 0.8V
High	3.0 - 5.0V
Thermal Shutdown Temperature	90°C (Accuracy ± 3°C)

OPTIONAL CONFIGURATION ADD-ONS

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

OPTIONAL ACCESSORIES

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

MECHANICAL DIAGRAM

