

Innovative Communication Solutions

BUC GaN

KU-BAND 40W 80W ATOMBKUG

SPECIFICATIONS

Linear Power* (Plin) 43 dBm min. **Output Power (Psat)** 46 dBm min. 49 dBm min.

Phase Noise (SSB) max. -73 dBc/Hz at 1kHz

Linear Gain (BUC)

Gain Flatness: Over Full Band @Plin Over Any 40 MHz

Over Temperature

Output Spurious: In-Band

Out-of-Band

Noise Power Density

Input VSWR **Output VSWR**

MIL-STD-810 Compliant

ATOMBKUG040

46 dBm min.

ATOMBKUG080

-83 dBc/Hz at 10kHz -93 dBc/Hz at 100kHz -103 dBc/Hz at 1MHz

60 dB min., 70 dB max.

≤ 6.0 dB p-p ≤ 1.5 dB p-p ≤ 3.0 dB p-p ≤ -60 dBc ≤ -60 dBc -90 dBm/Hz in Tx

-144 dBm/Hz in Rx

2.0:1 max. 2.6:1 max.

Input Voltage + 18V to + 56V DC via power connector 195 W max.

ATOMBKUG040

ATOMBKUG080

370 W max.

Power Connector MIL-26482 Series 1 receptacle

Shell Size 12, 4 Pins 58-533723-04P

Input (waterproof) Type N Connector (50 Ohm)

Output (waterproof) WR-75 waveguide grooved

M&C Interface RS-485 & RS-232 Ethernet

Dimensions (L x W x H) 160 mm x 95 mm x 166 mm max (With Fan) (6.59 in x 3.74 in x 6.51 in)

Power Consumption

168 mm x 85 mm x 80 mm Dimensions (L x W x H) max (Without Fan) (6.59 in x 3.35 in x 3.16 in)

Weight (With Fan) < 2.8 kg (6.2 lb)

Weight (Without Fan) < 2.3 kg (5.1 lb)

Operating Temperature -40 to +60°C (Psat) -40 to +71°C (Plin)

-50 to +80°C Storage Temperature

Humidity 100% condensing

Enclosed Accessories Screws, Gasket, M&C Connector, Power Connector

FREQUENCY BANDS

S: Standard E: Extended 13.75 - 14.5 Transmit Frequency (GHz) 14.0 - 14.5 L.O. Frequency (GHz) 13.05 12.80 IF Frequency (MHz) 950 - 1450 950 - 1700

HOW TO ORDER



BLANK: No Add-on OPTIONAL ADD-ONS (80W only):

F: EMI/EMC Filter

I: Internal Reference

P: Surge Protection

FI: EMI/EMC Filter & Internal Reference IP: Internal Reference & Surge Protection

FP: EMI/EMC Filter & Surge Protection FIP: EMI/EMC Filter, Internal Reference & Surge Protection

1: Internal Fan

2: External Baseplate

S: Standard

E: Extended

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KU-BAND 40W 80W BUC: ATOMBKUG

MONITOR & CONTROL

M&C Interface: RS-485 & RS-232 MIL-26482 Series 1 receptacle

Shell Size 12, 10 Pins

58-533723-10P

Ethernet MIL-26482 Series 1 receptacle

Shell Size 10, 6 Pins 58-533722-06P

Mute Control: Fully configurable

(mute enable: high or low,

mute default: enabled or disabled)

Low 0.0 - 0.8V **High** 3.0 - 5.0V

OPTIONAL CONFIGURATION ADD-ONS

(80W ONLY)

EMI/EMC Filter: MIL-STD-461

Internal Reference: With External 10 MHz Reference

Auto-Switch

Surge Protection: MIL-STD-1275D

OPTIONAL ACCESSORIES

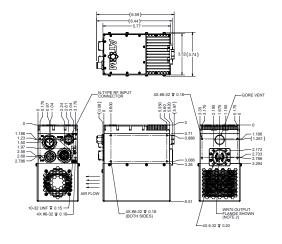
Power Supply 040: PS300-AT1-(NA/UK/EU/IEC)

080: PS600-AT1-(NA/UK/EU/IEC)

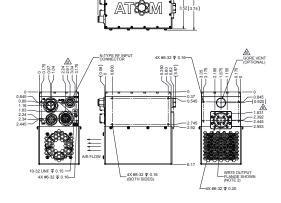
M&C Cable CABLEM+C-AT10

MECHANICAL DIAGRAM

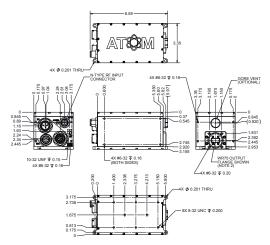
ATOM BUC with internal fans and surge protection



ATOM BUC with internal fans



ATOM BUC with external baseplate





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