

Innovative Communication Solutions

SSPAKA-BAND 25W ATOMSKA025



NORSAT ATOM SERIES SSPAS

Compared to equivalent products, ATOM series SSPAs are:

- Up to 20% smaller
- Up to 50% lighter
- Internal isolation to provide reflected power protection

The Norsat ATOM series of solid state power amplifiers (SSPA) are among the smallest, lightest, and most energy efficient transmitters available. The high efficiency of ATOM reduces power consumption significantly, delivering considerable operational cost savings over the lifetime of the device.

RF CONFIGURATIONS

Transmit Frequency

Military band
Commercial band 1
Custom – Specified within Bandwidth

30.0 to 31.0 GHz 29.0 to 30.0 GHz

OPTIONS

The following items are standard:

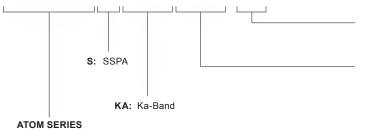
White paint, EMI/EMC Filter, Auto-Sensing Internal/External Reference, Low Voltage Operation, Fast Switching.

Available options include:

Baseplate Cooling, Ethernet M+C, 1275D Surge + Protect Filter.

HOW TO ORDER

ATOMSKA025-M



Band

M - Military

C - Commercial S - Specified Bandwidth

о ореспіса ваї

025-25W



North America +1 800 644 4562 **Asia Pacific** +1 604 821 2813 **EMEA** +44 1522 730 800

South America +1 604 821 2835

Online www.norsat.com

KA-BAND 25W SSPA-ATOMSKA025

RF SPECIFICATIONS

 Output Power (Psat)
 44 dBm

 Output Power (Plin)
 > 41 dBm

Phase Noise -66 dBc/Hz at 100 Hz
-76 dBc/Hz at 1 KHz
-86 dBc/Hz at 10 KHz

-96 dBc/Hz at 100 kHz -106 dBc/Hz at 1 MHz

-25 dBc

Noise Figure 15 dB

Conversion Gain 50 dB typ.

Gain Variation over 40MHz +/- 0.5 dB

Gain Variation over 500 MHz +/- 1.5 dB

Gain Variation over 1000 MHz +/- 2.0 dB

Gain Variation over temperature +/- 2 dB

Spurious in Band -55 dBc

Spectral Regrowth @ Plin -30 dBc

ENVIRONMENTAL & PHYSICAL

Operating Temperature $-40 \text{ to } +60 ^{\circ}\text{C} \ (-40 ^{\circ} \text{ to } +140 ^{\circ}\text{F})$ Storage Temperature $-54 \text{ to } +105 ^{\circ}\text{C} \ (-65 ^{\circ} \text{ to } +221 ^{\circ}\text{F})$ Outline Dimensions $7.10 \times 3.64 \times 6.83 ^{\circ}$

Weight 2.9 kg (6.3 lbs)

Enclosed Accessories Screws, gasket, M&C mating connector, power mating connector

POWER

Input Voltage 20 – 56 VDC

Power Consumption 200W @ Psat 150W @ Plin 25W muted

Power Connector MIL-26482 Series 1 Shell size 12, 4 pins

MONITOR & CONTROL

Discrete Mute Control Voltage ranges

Mute enable can be high or low

3rd Order Intermod @ Plin

Low 0 - 0.8 V High 3.0 - 5.0 V Fully programmable

Mute default can be enabled or disabled

M&C Connector MIL-26482 Series 1 Shell size 12, 10 pins

M&C Signaling RS-485, RS-232 or Ethernet

INTERFACES

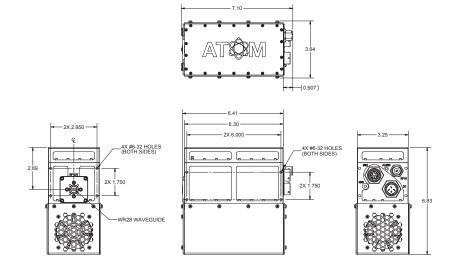
 Input VSRW
 1.5 : 1

 Output VSRW
 1.9 : 1

 RF Input Connector
 2.92 mm

 RF Output Connector
 WR-28

MECHANICAL DIAGRAM









North America +1 800 644 4562 **Asia Pacific** +1 604 821 2813 **EMEA** +44 1522 730 800

South America +1 604 821 2835 Online www.norsat.com