

CL-Band Hub-mount Pulse SSPA

4KW Pulse RF output

5.4 – 5.9 GHz

AWMA-CL series
SapphireBlu Line

Features

- 4KW Pulse RF output power in 5.4 -5.9 GHz
Fast pulse rise/fall times (<100 ns)
Duty cycle up to 10%
Minimal pulse droop (<1% @ 100 μ s)
- Full M&C capability via RS485
- Forward and Reflected power monitoring
- Output Sample Port
- Infinite VSWR protection with automatic high reflected power shutdown
- Built-in harmonic Filter
- Weatherproof construction
- CE marking

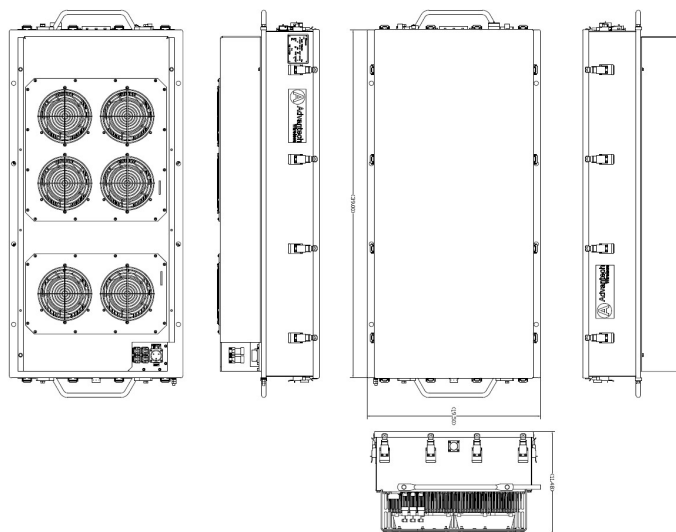
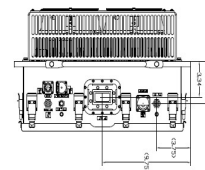


Overview

The Advantech Wireless Model APRA-C4000A, GaN based CL-Band Solid-State Pulse Amplifier operates over the band of 5.4 – 5.9 GHz. The peak power at the output connector is 4,000W.

The design of the product is based on Advantech's tradition of high power and high efficiency line of amplifiers.

Built-in features such as duty cycle monitor and pulse width monitor ensure trouble free operation.



Accessories

- Mounting kits
- Remote M&C panel with optional SNMP

Options

- Phase combined systems for higher power
- Ethernet port

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| General Specifications | | | | |
|------------------------------------|--|--|--------------------------|--------------------|
| Operating Frequency | 5.4 - 5.9GHz | | | |
| Pulse Width | 0.5us – 100us | | | |
| Duty Cycle | 10% max. | | | |
| Pulse Repetition Frequency PRF | 10KHz max. | | | |
| Rise/ Fall time (10% to 90%) | 100ns max. | | | |
| Output Peak Power Psat | 4,000W | | | |
| Gain | 76dB min. | | | |
| Gain adjustment range | 20 dB in 0.1 dB steps | | | |
| Power Gain flatness over full band | ± 1dB max | | | |
| Pulse Droop @ 100us Pulse Length | 1% max | | | |
| Gain variation over temperature | ± 1.5 dB max. | | | |
| Input Impedance and VSWR | 50 Ω | 1.3:1 max | | |
| Output Impedance and VSWR | 50 Ω | 1.3:1 max | | |
| Noise power density | -70dBm/Hz enabled -165dBm/Hz disabled | | | |
| Spurious at Psat | -60 dBc | | | |
| Harmonics | -30 dBc max @ Psat | | | |
| Gating Signal | TTL (Gating Signal to perceive the RF pulse by 2us), Enabled – High (other options available). | | | |
| Weight & Dimensions | | | | |
| Dimensions | 39.0” x 19.5”x 11.5” | | | |
| Weight | 176 lbs / 80kg | | | |
| AC input voltage | 190 - 265 VAC (47 - 63 Hz) | | | |
| Power consumption | 2.5KVA max. | | | |
| Interfaces | Input | N type female | AC line | MS3102 type |
| | Output Sample Port | N type female | RF output | WR159 |
| | RS232/RS485 | MS3102 type | Ethernet | RJ45 (Weatherized) |
| | Gating Signal | N-type (F) | | |
| Environmental | Temperature | Operating -30°C to +55 °C Storage -55°C to +85 °C | Option 1 -40°C to +55 °C | |
| | Humidity | 100% condensing | | |
| | Altitude | 10,000' AMSL, derated by 2 °C/1000' from AMSL | | |

Ref.: PB-AWMA-CL-band-4KW-25269

NORTH AMERICA

USA
info.usa@advantechwireless.com

CANADA
Info.canada@advantechwireless.com

EUROPE

UNITED KINGDOM
info.uk@advantechwireless.com

SOUTH AMERICA

info.lam@advantechwireless.com

BRAZIL
info.brazil@advantechwireless.com

ASIA

info.asia@advantechwireless.com

INDIA
info.india@advantechwireless.com