

# MILITARY AMPLIFIER







VU - 30MHz to 512 MHz H - 1.6 MHz to 30 MHz









## **MAIN FEATURES**

#### LINEAR POWER AMPLIFIERS

- AFRACAL 1 H 1.6 30 MHz (125W)
- AFRACAL 1 VU 30 -512 MHz (75W)
- Rugged, Compact and Reliable - Radio user interface RS232 / RS485 control
- Automatic output filter select
- Forward power indication - Reflected Power indication

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8000 5 K

rency Range : 38 - 512 MHz ower Supply : 12 - 36 VDC

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- 1 m water immersion
- 3 year warranty
- MIL-STD-810 G

#### **FEATURES**

The AFRACAL 1 Power Amplifiers provide uncompromised communication for tactical missions.

Low-pass-filter switching is controlled by both the Radio and Amplifier logic to ensure seamless performance.

#### COMPACT DESIGN

Designed to fit into tight spaces within military vehicles, the Afracal 1 amplifier range is one of the most compact available.

#### MIL-STD-810G

Powder-coated T6-Aluminium casing ensures compliance to MIL-STD- 810G specifications.

#### SET-UP

Set-up is automatically performed by the connected radio.

#### DATA

High data rates can be maintained due to the exceptional linearity.

#### **POWER SUPPLY**

The **AFRACAL 1** amplifiers can operate from 12 - 36VDC. The connected radio is supplied with a stable 12VDC simplifying power supply configurations and reducing cabling.

#### ATU

The AFRACAL 1 - H RF Amplifier facilitates a connection to external high power antenna tuners converting radio RS232 to robust RS485 control signals for extended installation distances between the amplifier and the tuner.

## INSTALLATION

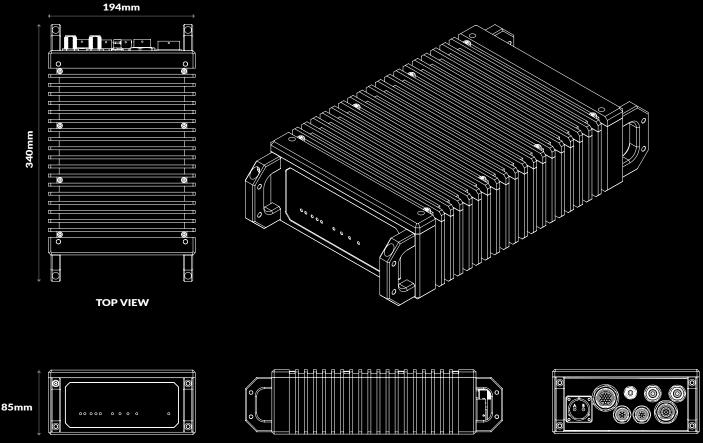
quick extraction, cooling and vibration damping.

Contact our sale team for options or custom solutions.

# **ENVIRONMENTAL**

Shock, Vibration & Immersion EMI/RFI **Operating Temperature** Storage Temperature

MIL-STD-810G MIL-STD-461E -30 to +65°C -40 to +85°C



FRONT VIEW







#### SPECIFICATIONS

**RF** Output Power

**Operation Cycle** Gain Amp Harmonic Suppression Max Load Mismatch Power Source **Power Connector RF** Input connector **RF Input/Output** RF Output connectors

125W (1.6-30MHz) PEP 75W (30 - 512) CW Continuous with optional cooling fan. 13dB ±1dB >55dB (typical) VSWR 1:5 12Vdc nom. (12-36 VDC) 62IN-12E-18-02P **BNC** - Female N-Type Female

# Protection Intercom Interface

**External Audio** Aux Connector Data Connectors Tuner Interface **Cooling Fan Connector Tuner Connector** Dimensions Weight **Power Consumption** 

Temperature, VSWR. Via radio handset connector 10W into  $4\Omega$  Optional Speaker (Aux Connector) 62IN-5024-12-14S 62IN-5005-10-8S RS232 / RS 485 62IN-5005-10-6S 62IN-5005-10-7S 194x85mm x340 (w x h x d) 8 kg (typical) 18A at 24V (typical)

Product specifications are correct at time of print. Please verify specifications with our sales department.





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