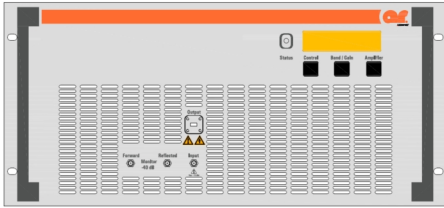


## TECHNICAL SPECIFICATION

### AR18K26-200

### 18.0 - 26.5 GHz 200 Watt Solid State Amplifier



The Model AR18K26-200 is a solid-state, Class A-AB design, self-contained, air-cooled, broadband power amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. It will provide a minimum of 200 W across its operating bandwidth of 18 - 26.5 GHz. Protection from input overdrive beyond 0 dBm is provided as well as protection from various failure conditions including over-temperature and power supply faults.

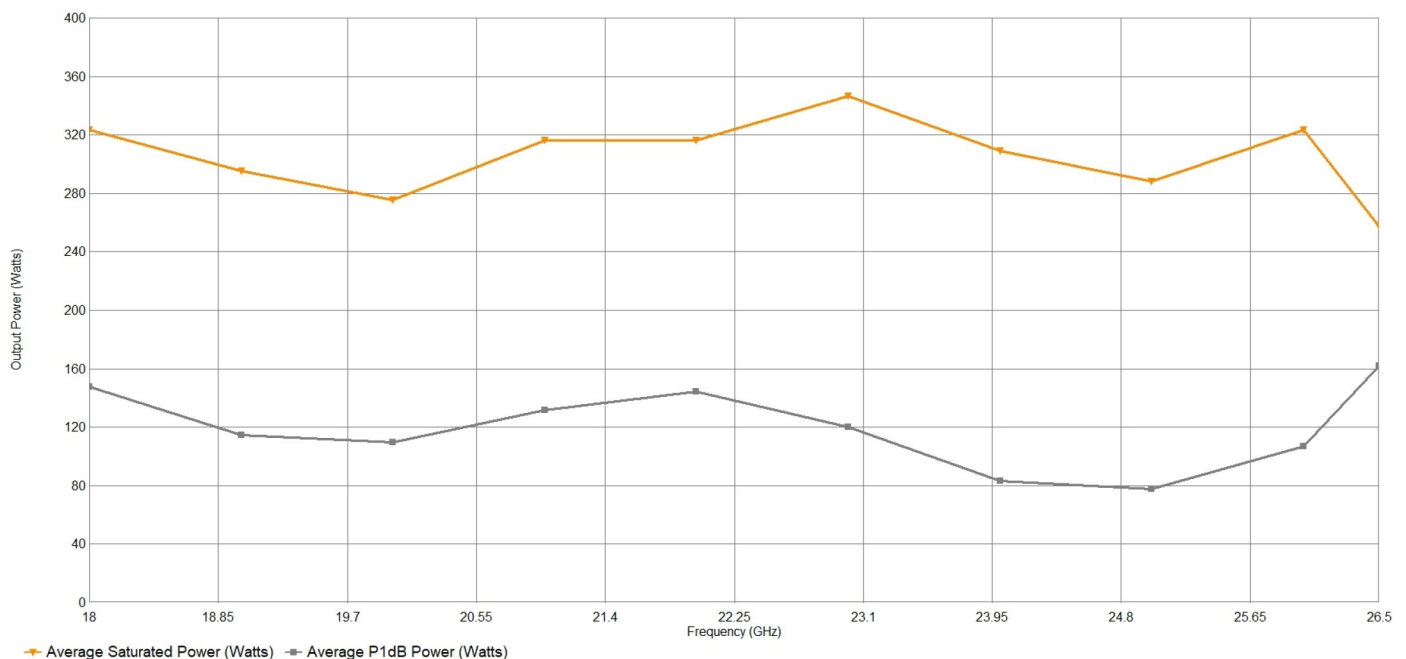
A front panel display indicates the operational status and fault conditions. All amplifier control functions, and status indications are available remotely using GPIB/IEEE-488, or Ethernet. Interface connectors are located on the back panel. Local and remote operation is managed by a switch on the front panel.

This is a multiple purpose amplifier. The low level of spurious signals and linearity make it ideal for, radiated immunity, (ISO, IEC & MIL) Aerospace & Defence, and Telecom Component Test applications.

The export classification for this equipment is 3A001. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

#### MAIN FEATURES

- **Class A/AB Linear**
- **Dual Directional Coupler**
- **100% Mismatch Tolerant**
- **Built In Web Server**
- **Ethernet & GPIB Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL), Telecom Component Test and Aerospace & Defence**



— Average Saturated Power (Watts) — Average P1dB Power (Watts)

### Technical Specifications

|                                 |  |
|---------------------------------|--|
| Frequency Range                 | 18 - 26.5 GHz  |
| Rated Output Power              | 200W (min) - 220W (typ)  |
| Power Output @ 1dB Compression  | 100W (typ)   |
| Input for Rated Output          | 0dBm (1mW)   |
| Small Signal Gain (Text)        | 53dB (min) 58dB (typ)  |
| Gain Variation (max) ±          | 5.0 dB   |
| Harmonics @ P1dB (min)          | -20 dBc  |
| Spurious (typ)                  | -60 dBc  |
| Input VSWR                      | 2:1 (typ)  |
| Output Impedance                | 50 Ohm   |
| Noise Figure (typ)              | 12 dBm   |
| Modulation Formats              | AM, FM, PM, ODFM   |
| Maximum Input Power (no damage) | 0 dBm  |
| Output VSWR Tolerance           | Infinite for no damage (100% mismatch tolerant) PN -0.5dB min at 2:1 |

### General Specifications

|                    |                |
|--------------------|----------------|
| Supply Frequency   | 47 to 63 (Hz)  |
| Supply Voltage     | 200 to 240 VAC |
| Supply Power (max) | 2.8 KVA        |

### Mechanical Specifications

|                                     |   |
|-------------------------------------|---|
| RF Input Connector                  | SMA - Female  |
| RF Output Connector                 | WR42  |
| RF Sample Port Connectors           | SMA - Female  |
| Dimensions (No Cabinet) (W x H x D) | (5U) 48.2 x 22.23 x 63.0 cm (19.0 x 8.75 x 24.8 Inch) |
| Weight (No Cabinet)                 | 35 kg (77.16 lbs)                                     |
| Cooling System                      | Forced air (self contained fans)                      |
| Com. Interface                      | IEEE-488 / Ethernet                                   |

### Environmental Specifications

|                             |                |
|-----------------------------|----------------|
| Ambient Running Temperature | 0°C to +45°C   |
| Storage Temperature         | -25°C to +85°C |
| Maximum Altitude            | up to 2000M    |
| Shock and Vibration         | MIL-STD-810 G  |

### Regulatory Compliance (CE)

|                       |                      |
|-----------------------|----------------------|
| EMC                   | EN 61326-1           |
| Safety                | UL 61010-1           |
| RoHS                  | DIRECTIVE 2011-65-EU |
| Export Classification | 3A001                |

### Available Configurations

| Product         | Configuration             | Item #   |
|-----------------|---------------------------|----------|
| AR18K26-200-001 | Front Panel RF Connectors | 10057014 |
| AR18K26-200-002 | Rear Panel RF Connectors  | 10057015 |