TECHNICAL **SPECIFICATION**

AR08M4-060

0.8 - 4.0 GHz 60 Watt P1dB Class A Amplifier

The Model AR08M4-060 solid-state, Class A design, self-contained, air-cooled, broadband power amplifier. It is designed for applications requiring instantaneous bandwidth, high gain, and linearity. The amplifier provides a minimum of 60 watts P1dB across its operating bandwidth of 0.8 - 4.0 GHz. It includes protection from input overdrive beyond 10 dBm, as well as protection from various failure conditions such as over-temperature and power supply faults.

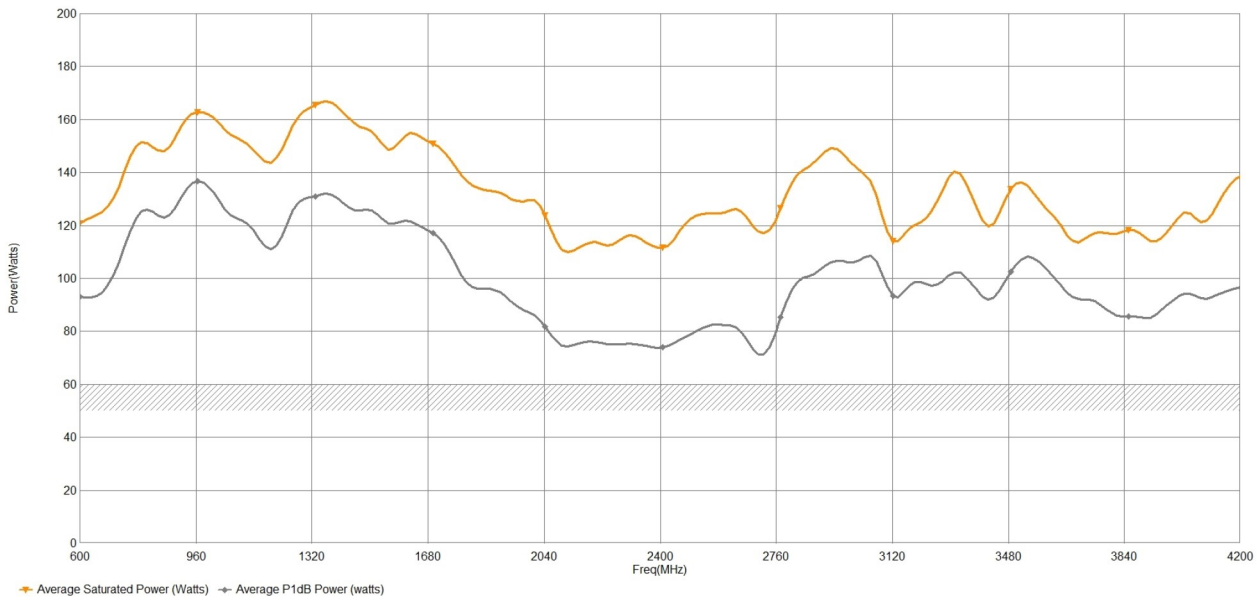
An easy-to-read front panel display shows the operational status and fault conditions. All amplifier control functions and status indications are available remotely using GPIB/IEEE-488, RS-232, USB, or Ethernet. Interface connectors are located on the back panel. The touchscreen on the front panel manages local and remote operation.

Its wide bandwidth also makes it suitable for 5G testing applications. The Class A design allows for continued operation into high VSWR loads, including open and short circuits, making it suitable for EMC Test applications offering a bandwidth of 0.8 to 8.0 GHz, when combined with a product from the AR4i8 series.

The export classification for this equipment is NLR (No Licence Required). This equipment is controlled for export in accordance with the U.K. Export Administration Regulations. Diversion contrary to U.K. law is prohibited.

MAIN FEATURES

- **Class A Operation**
- **100% Missmatch Tolerant with no Foldback**
- **Scalable Modular Construction**
- **Ethernet, USB, GPIB, RS-232 Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL), Telecom Component Test and Aerospace&Defence**



Technical Specifications

Frequency Range	0.8 - 4.0 GHz
Rated Output Power	80W (min) - 90W (typ) Watts
Input for Rated Output	1 dBm
Power Output @ 1dB Compression	60W (min) - 70W (typ) Watts
Small Signal Gain	47.8 dB
Gain Control Adjust When Below P1dB	30 dB
Harmonics @ P1dB (typ)	-18 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max) (typ)
Output VSWR	2:1 (typ) (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	58 dB > P1dB
Noise Figure	12 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any Phase (No Foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	62 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	0.6 KVA
Supply Voltage Single Phase	90 to 264 VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-N Female
RF Sample Port Connectors	Type-N Female, (coupling factor 40 dB typical)
Safety Interlock	Via rear panel mounted BNC-female
Dimentions (No Cabinet) (W x H x D)	48.3 x 17.8 x 61.5 cm (19.0 x 7.0 x 24.2 in) (4U)
Weight (No Cabinet)	20 Kg (44 lbs)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / USB 2.0 / Ethernet

Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M M
Shock and Vibration	Normal Truck Transport

Regulatory Compliance

EMC	EN 61326-1
Saftey	EN 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	3A001

Available Configurations

Product	Configuration	Item #
AR08M4-060-001	Front Panel RF Connectors	4-342014
AR08M4-060-002	Rear Panel RF Connectors	4-342015