

# GENERAL PURPOSE LINEAR AMPLIFIERS

400-1000 MHz 10 Watts



1-2 GHz 250 Watts



## Series AR

### DESCRIPTION:

Series AR amplifiers are rack-mountable units which incorporate the Series AM amplifier in a cabinet containing a built-in universal AC power supply (for models up to 100 watts). Models are available for operation at frequencies from 1 MHz to 2 GHz and output power from 10 to 250 W. They are forced-air cooled by blowers built into the mechanical package. AR models are also available with an optional IEEE BUS for remote control and monitoring (ARD version).

### FEATURES:

- Frequency Range: 1 MHz to 2 GHz; bandwidths to multi-octave
- Power Output: 10 to 250 watts
- CE Compliant
- Universal AC input (Models up to 100 watts)

### ELECTRICAL

Input Overdrive .....	10 dB above 1 dB compression
RF Input Signals.....	CW, FM, AM, and pulse/phase modulation
Small Signal Gain Flatness:	
• AR1658 .....	±2.0 dB
• AR4819 & AR1929 .....	±1.0 dB
Noise Figure .....	10 dB Typical
Harmonics.....	-20 dBc
Spurious Signals .....	-60 dBc
Input VSWR .....	2:1
Load VSWR .....	Open or short-circuit protected, unconditionally stable
RF In/Out Connector	
• Up to 50 W .....	Type N, female bulkhead front panel mounted
• > 50 W .....	Type N, female bulkhead rear panel mounted
AC Input .....	Universal AC input for models up to 100 watts Units above 100 watts are supplied at 220 VAC

### AVAILABLE OPTIONS

- IEEE 488 BUS
- Gain Control
- Digital Power Meter
- Rack Mounting Slides

For Environmental Specifications, see Page 18, Table 2.

Model No.	Frequency Range (MHz)	Power Out (W)		Gain@Rated Power Out (dB min)	Line Power (VA)	Dimensions						Weight	
		1 dB	Sat			H		W		L		(lbs)	(kg)
						(in)	(cm)	(in)	(cm)	(in)	(cm)		
AR1658-10	1 to 500	10	15	40	250	5.25	13.3	19	48.3	22	55.9	25	11
AR1658-25		25	30	44	540	5.25	13.3	19	48.3	22	55.9	30	14
AR1658-50		50	70	47	1,140	5.25	13.3	19	48.3	22	55.9	45	20
AR4819-10	400 to 1000	10	15	40	295	5.25	13.3	19	48.3	22	55.9	25	11
AR4819-25		25	40	44	615	5.25	13.3	19	48.3	22	55.9	30	14
AR4819-50		50	75	47	1,230	5.25	13.3	19	48.3	22	55.9	45	20
AR1929-10	1000 to 2000	10	13	40	185	5.25	13.3	19	48.3	22	55.9	25	11
AR1929-30		30	34	45	600	5.25	13.3	19	48.3	22	55.9	37	17
AR1929-50		50	55	47	980	5.25	13.3	19	48.3	22	55.9	45	20
AR1929-100		100	115	50	2,500	8.75	22.2	19	48.3	26	66.1	100	45
AR1929-250		250	350	54	4,000	14.00	35.56	19	48.3	26	66.1	150	68

Specifications are subject to change without notice.