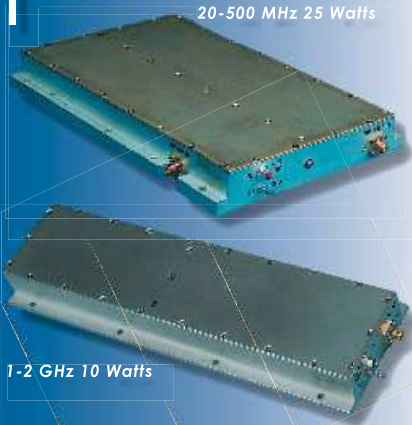


# GENERAL PURPOSE LINEAR AMPLIFIERS

## Series AM



Series AM amplifiers are available for operating frequencies from 20 MHz to 2 GHz and output power from 2 to 100 Wat 1 dB compression. Their design utilizes the most advanced state-of-the-art technologies in RF/microwave power, including combination techniques and component selection of transistors.

**ELECTRICAL**

RF Input Signals.....	CW, AM, FM, Phase and Pulse Modulation
Harmonics.....	-20dBc Max
Spurious.....	-60dBc Max
Input VSWR.....	2.0:1 Max
Load VSWR.....	Open / Short Circuit Protected, Unconditionally Stable
Noise Figure.....	10dB Typical
Maximum RF Input.....	10dBc above the input required to achieve P1 dB
RF Connectors.....	SMA Female

Model

- AM2758 ..... +/-2.0dB
- AM88258 ..... +/-1.5dB
- AM8829 ..... +/-1.5dB
- AM4819 ..... +/-1.0dB
- AM178238 ..... +/-1.0dB
- AM17839 ..... +/-1.0dB

- Frequency Range: 20 MHz to 2 GHz; bandwidths to multi-octave
- Power Output: 2 to 100 watts

Model No.	Frequency (MHz)	Power Out P1dB	Sat	Gain at P1dB (dB min)	Current (amps max)	Dimensions						Weight	
						H (in)	H (cm)	W (in)	W (cm)	L (in)	L (cm)	(lbs)	(kg)
AM2758-10	20-500	10	15	40	3.35A @ 24Vdc	1.75	4.45	3.625	9.21	6.00	15.24	1.6	0.73
AM2758-25	20-500	25	30	44	7.5A @ 24Vdc	1.62	4.11	3.63	9.21	8.50	21.59	3.20	1.45
AM88258-10	800-2500	10	13	40	7.5A @ 15Vdc	1.06	2.69	6.24	15.85	9.38	23.82	3	1.36
AM88258-30	800-2500	30	34	45									
AM88258-50	800-2500	50	55	47									
Call sales dept for full information													
AM8829-5	800-2000	5	6	37	3A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM8829-10	800-2000	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.57	10.68	27.13	1.8	0.82
AM8829-30	800-2000	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM8829-50	800-2000	50	55	47	23.5A @ 15Vdc	1.06	2.69	7.5	19.05	14.4	36.58	6	2.73
AM4819-10	400-1000	10	12	44	5A @ 26Vdc	1.3	3.3	4	10.16	6	15.24	1.5	0.68
AM4819-50	400-1000	50	70	47	11A @ 26Vdc	1.5	3.81	3.75	9.52	11.5	29.21	3.5	1.59
AM178238-10	1700-2300	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM178238-30	1700-2300	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM17839-10	1700-3000	10	13	40	7.5A @ 15Vdc	1.06	2.69	3.35	8.51	13.25	33.66	2.2	1
AM17839-30	1700-3000	30	33	45	17A @ 15Vdc	1.06	2.69	7.125	15.85	9.875	25.08	4	1.82

Specifications are subject to change without notice.

# GENERAL PURPOSE LINEAR AMPLIFIERS

## Series AR



800-2000 MHz 10 Watts

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 20 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).

Model No.	Frequency (MHz)	Power Out P1dB	Sat	Gain at P1dB (dB min)	KVA	Dimensions						Weight	
						H (in)	H (cm)	W (in)	W (cm)	L (in)	L (cm)	(lbs)	(kg)
AR2758-10	20-500	10	15	40	0.115	5.22	13.26	19	48.26	22	55.88	25	11.36
AR2758-25	20-500	25	30	44	0.23	5.22	13.26	19	48.26	22	55.88	30	13.64
AR88258-10	800-2500	10	13	40	0.173	5.22	13.26	19	48.26	22	55.88	25	11.36
AR88258-30	800-2500	30	34	45	0.438	5.22	13.26	19	48.26	22	55.88	40	18.19
AR88258-60	800-2500	60	70	47.8	0.645	8.72	22.15	19	48.26	26.25	66.68	80	36.36
AR88258-150	800-2500	150	200	52	2.1	PA 12.22 PS 5.22	31.04	19	48.26	26.25	66.68	115	52.27
AR8829-10	800-2000	10	13	40	0.173	5.22	13.26	19	48.26	22	55.88	25	11.36
AR8829-30	800-2000	30	35	45	0.312	5.22	13.26	19	48.26	22	55.88	35	15.91
AR8829-50	800-2000	50	55	47	0.404	5.22	13.26	19	48.26	22	55.88	40	18.19
AR8829-100	800-2000	100	115	50	0.863	8.72	22.15	19	48.26	26.25	66.68	80	36.36
AR1929-250	1000-2000	250	280	54	2.7	PA 10.5 PS 5.22	26.67	19	48.26	26.25	66.68	115	52.27
AR4819-10	400-1000	10	15	40	0.173	5.22	13.26	19	48.26	22	55.88	25	11.36
AR4819-25	400-1000	25	30	45	0.404	5.22	13.26	19	48.26	22	55.88	35	15.91
AR4819-50	400-1000	50	55	47	0.404	5.22	13.26	19	48.26	22	55.88	35	15.91
AR178238-10	1700-2300	10	13	40	0.173	5.22	13.26	19	48.26	22	55.88	25	11.36
AR178238-30	1700-2300	30	35	45	0.312	5.22	13.26	19	48.26	22	55.88	35	15.91
AR178238-50	1700-2300	50	55	47	0.404	5.22	5.22	19	19	19	19	19	19
AR178238-100	1700-2300	100	115	50	1.04	8.72	22.15	19	48.26	26.25	66.68	80	36.36
AR178238-200	1700-2300	200	225	54	2.54	PA 10.5 PS 5.22	26.67	19	48.26	26.25	66.68	109	52.27
AR178238-300	1700-2300	260	300	54.7	1.5	PA 12.22 PS 5.22	31.04	19	48.26	26.25	66.68	115	52.27
AR17839-10	1700-3000	10	13	40	0.138	5.22	13.26	19	48.26	22	55.88	25	11.36
AR17839-30	1700-3000	30	35	45	0.312	5.22	13.26	19	48.26	22	55.88	35	15.91
AR17839-50	1700-3000	50	60	47	0.46	5.22	13.26	19	48.26	22	55.88	40	18.19

Specifications are subject to change without notice.

# WIRELESS BAND LINEAR AMPLIFIERS

## Series AM Wireless

800-2500 MHz 10 Watts



1.7-3 GHz 10 Watts

Series AM cellular amplifiers are available for operating frequencies from 800 to 3000 MHz and output power from 10 to 50 W at 1 dB compression. Their design utilizes the most advanced state-of-the-art technologies in RF/microwave power, including combination techniques and component selection of transistors.

### ELECTRICAL

RF Input Signals	CW, AM, FM, Phase and Pulse Modulation
Harmonics	-20dBc Max
Spurious	-60dBc Max
Input VSWR	2.0:1 Max
Load VSWR	Open / Short Circuit Protected, Unconditionally Stable
Noise Figure	10dB Typical
Maximum RF Input	10dBc above the input required to achieve P1dB
RF Connectors	SMA Female
Model	
• AM88258	+/-1.5dB
• AM178238	+/-1.0dB
• AM17839	+/-1.0dB

### AVAILABLE OPTIONS

- Noise Quiet
- Custom Specifications
- Other Frequency Ranges, Power Levels, Gains and Connectors

Model No.	Frequency (MHz)	Power Out		Gain at P1dB (dB min)	Current (amps max)	Dimensions						Weight	
		P1dB	Sat			H (in)	H (cm)	W (in)	W (cm)	L (in)	L (cm)	(lbs)	(kg)
AM2758-10	20-500	10	15	40	3.35A @ 24Vdc	1.75	4.45	3.625	9.21	6.00	15.24	1.6	0.73
AM2758-25	20-500	25	30	44	7.5A @ 24Vdc	1.62	4.11	3.63	9.21	8.50	21.59	3.20	1.45
AM88258-10	800-2500	10	13	40	7.5A @ 15Vdc	1.06	2.69	6.24	15.85	9.38	23.82	3	1.36
AM88258-30	800-2500	30	34	45									
AM88258-50	800-2500	50	55	47									
Call sales dept for full information													
AM8829-5	800-2000	5	6	37	3A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM8829-10	800-2000	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.57	10.68	27.13	1.8	0.82
AM8829-30	800-2000	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM8829-50	800-2000	50	55	47	23.5A @ 15Vdc	1.06	2.69	7.5	19.05	14.4	36.58	6	2.73
AM4819-10	400-1000	10	12	44	5A @ 26Vdc	1.3	3.3	4	10.16	6	15.24	1.5	0.68
AM4819-50	400-1000	50	70	47	11A @ 26Vdc	1.5	3.81	3.75	9.52	11.5	29.21	3.5	1.59
AM178238-10	1700-2300	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM178238-30	1700-2300	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM17839-10	1700-3000	10	13	40	7.5A @ 15Vdc	1.06	2.69	3.35	8.51	13.25	33.66	2.2	1
AM17839-30	1700-3000	30	33	45	17A @ 15Vdc	1.06	2.69	7.125	15.85	9.875	25.08	4	1.82

Specifications are subject to change without notice.

# WIRELESS BAND LINEAR AMPLIFIERS

## Series AR Wireless

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 800 to 3000 MHz and power from 10 to 300 watts. 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).



1700-2120 MHz 300 Watts

### ELECTRICAL

RF Input Signals	CW, AM, FM, Phase and Pulse Modulation
Harmonics	-20dBc Max
Spurious	-60dBc Max
Input VSWR	2.0:1 Max
Load VSWR	Open / Short Circuit Protected, Unconditionally Stable
Noise Figure	10dB Typical
Maximum RF Input	10dBc above the input required to achieve P1dB
RF Connectors	Type N Female Front or Rear mount available
Model	
• AR2758	+/-2.0dB
• AR88258	+/-1.5dB
• AR8829	+/-1.5dB
• AR4819	+/-1.0dB
• AR178238	+/-1.0dB
• AR17839	+/-1.0dB
AC Input	Power Factor Corrected Universal AC input 100 - 240Vac, 50/60Hz for models up to 100 Watts. Power Factor Corrected AC input 200 - 240Vac, 50/60Hz for models above 100 Watts. 3 Phase input available.

### AVAILABLE OPTIONS

- Digital Interfaces available: ETHERNET, RS232, IEEE488
- Noise Quiet, Remote On/Off
- Rack Mounting Slides
- Custom Specifications

- Frequency Range: 800 MHz to 3.0 GHz; bandwidths to multi-octave
- Power Output: 10 to 300 watts
- Universal AC input (Models up to 100 watts)

Model No.	Frequency Range (MHz)	Power Out (W@1dB)	Dimensions (h x w x L) <sup>±</sup>
AR88258-10	800-2500	10	1.06 x 6.24 x 9.38 2.79 x 14.98 x 23.87
AR88258-30	800-2500	30	1.1 x 15 x 9.4 2.79 x 38.1 x 23.87
AR88258-60	800-2500	60	1.1 x 3.4 x 10.7 2.79 x 8.64 x 27.18
AR88258-150	800-2500	150	1.1 x 7.2 x 9.9 2.79 x 18.29 x 25.12
AR178238-10	1700-2300	10	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR178238-30	1700-3000	30	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR178238-50	1700-2300	50	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR178238-100	1700-2300	100	8.75 x 19.0 x 26.0 22.23 x 48.26 x 66.04
AR178238-200	1700-2300	200	
AR178198-200	1750-1850	200	12.25 x 19.0 x 26.0 31.12 x 48.26 x 66.04
AR178228-300	1700-2120	300	15.75 x 19.0 x 26.0 40.0 x 48.26 x 66.04
AR17839-10	1700-3000	10	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR17839-30	1700-3000	30	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR17839-50	1700-3000	50	8.75 x 19.0 x 22.0 22.23 x 48.26 x 55.88

Specifications are subject to change without notice.