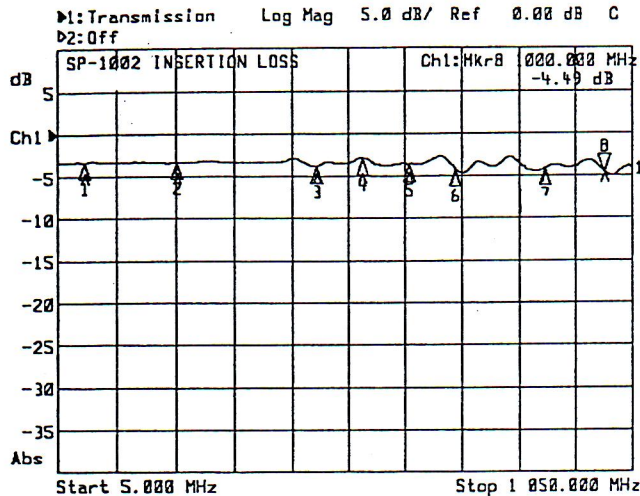


5-1000 MHz Splitter/Combiner Specifications

2-Way Model SP-1002

4-Way Model SP-1004

Insertion Loss

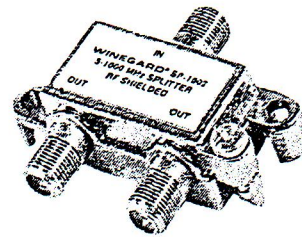


1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 54.00	-3.23		
2: 216.00	-3.24		
3: 470.00	-3.73		
4: 555.00	-2.83		
5: 640.00	-3.52		
6: 725.00	-4.19		
7: 890.00	-4.01		
8: 1000.00	-4.49		

WINEGARD®

2-Way Model SP-1002

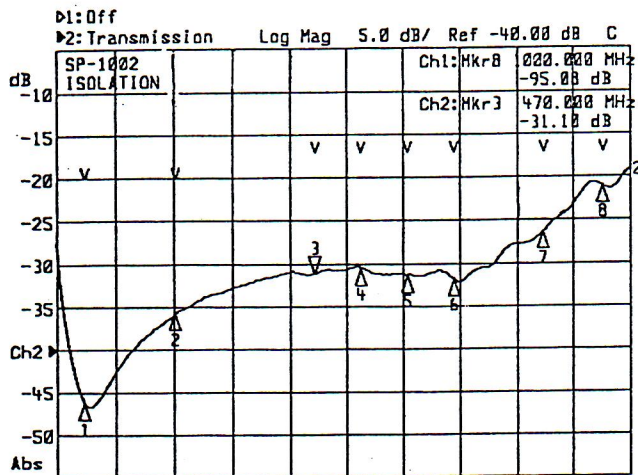
5-1000 MHz



2-way line splitter (5-1000 MHz) in cast metal housing with ground connection, indoor use only. For coupling or dividing signals on 75 ohm coaxial line. All connections are F-type suitable for RG-59, RG-6 or RG-11/U cables. Connectors not included. AC/DC passive all sides.

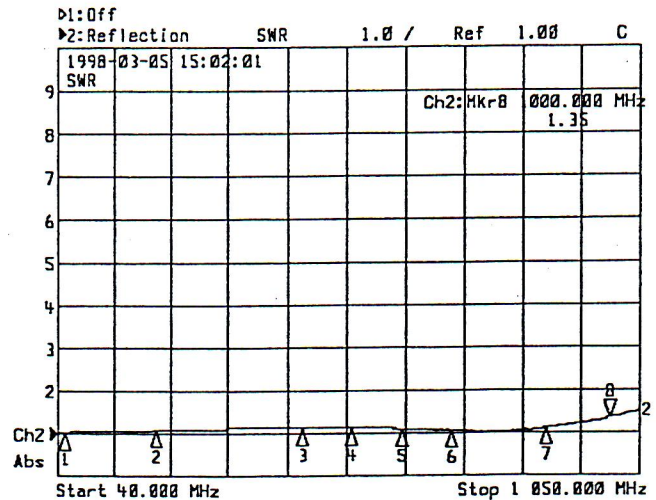
For bulk, (24) order SP-1X02. Connectors not included.

Isolation



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
		1: 54.00	-46.18
		2: 216.00	-35.69
		3: 470.00	-31.10
		4: 555.00	-30.40
		5: 640.00	-31.18
		6: 725.00	-31.74
		7: 890.00	-26.24
		8: 1000.00	-20.98

VSWR



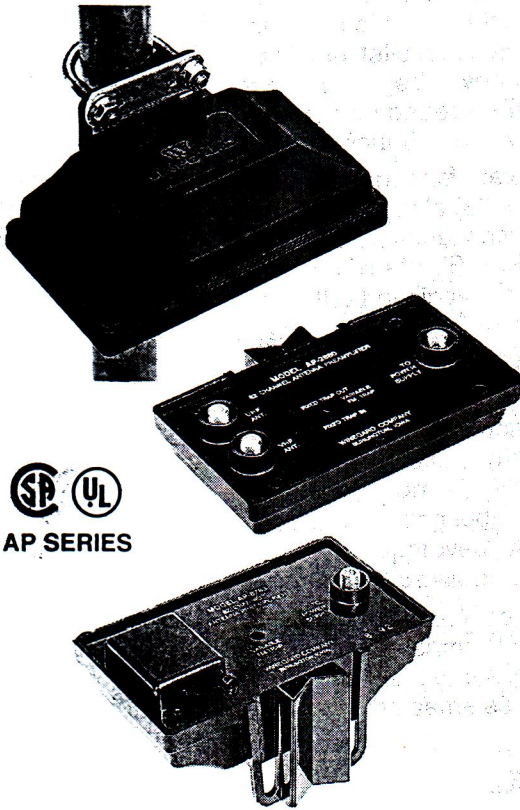
1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
		1: 54.00	1.05
		2: 216.00	1.08
		3: 470.00	1.13
		4: 555.00	1.12
		5: 640.00	1.11
		6: 725.00	1.07
		7: 890.00	1.11
		8: 1000.00	1.35

4-Way Model See Reverse

WINEGARD® Chromstar® 2000 Series Preamplifiers

Select 75 or 300 ohm input for convenience and easy installation

CHROMSTAR 2000



AP SERIES

Winegard 2000 preamplifiers feature 75 or 300 ohm input for greater convenience and easier installation. The versatile, universal housing can be used with any off-air TV antenna on the market. It is constructed of tough, high impact ABS material and mast-mounted for easier installation. Flexible polyethylene boot covers on the 75 ohm and a hinged cover on the 300 ohm models keep connections clean, dry and protected from the weather. The steel hardware is zinc plated. All mounting hardware included.

The VHF 82 channel preamps feature a selectable FM trap that reduces FM signals (88-108 MHz) -15 dB to prevent overload from strong local stations, and a tunable FM trap that reduces a 3 MHz band width by -12 dB. Both are adjustable — selectable without opening the housing.

Transistor burnout is virtually eliminated with specialized circuitry featuring an ultra-fast recovery diode that protects against lightning-caused pulses. Operating temperatures are -40° to +140° F.

Surface mounted components are 1/10th the size of leaded components resulting in a more compact amplifier. The components are fastened more securely to the printed circuit board with little chance of breaking loose during shipping or severe weather. 117 VAC UL and CSA approved power supply is included. (Does not include F-connectors.) U.S. Patent No. D335,887, D358,365, 5,515,240 (Power supply housing design)

AP-47XX is the same as AP-4700 without power supply

AP-48XX is the same as AP-4800 without power supply

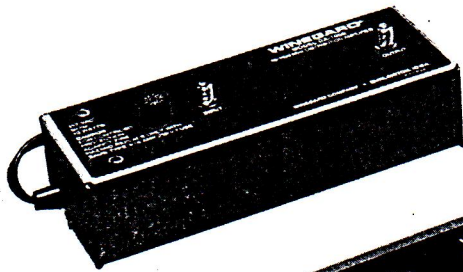
AP-87XX is the same as AP-8700 without power supply

AP-878X is the same as AP-8780 without power supply

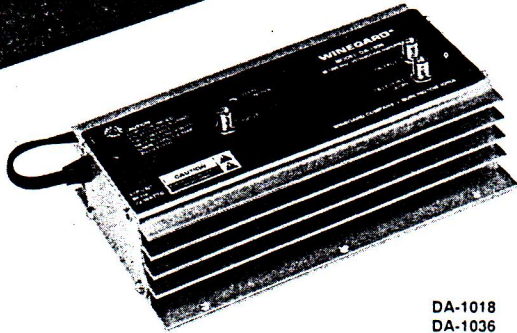
MODEL	INPUT		OUTPUT	AVERAGE GAIN		AVERAGE NOISE FIG.		MAXIMUM TOTAL INPUT* (MICROVOLTS)	
	VHF	UHF 82 CH.		VHF	UHF	VHF	UHF	VHF	UHF
AP-2870	75	75	75	17 dB	19 dB	2.9 dB	2.9 dB	110,000 µV	93,000 µV
AP-2880	75	75	75	29 dB	19 dB	2.9 dB	2.9 dB	29,000 µV	93,000 µV
AP-3700	75	or 75	75	17 dB	By-Passed	2.6 dB	N/A	110,000 µV	N/A
AP-3800	75	or 75	75	29 dB	By-Passed	2.9 dB	N/A	29,000 µV	N/A
AP-4700		75 or 75	75	By-Passed	19dB	NA	2.9dB	NA	93,000 µV
AP-4800		75 or 75	75	By-Passed	28 dB	N/A	2.7 dB	N/A	30,000µV
AP-8275		75	75	29 dB	28 dB	2.9 dB	2.8 dB	29,000 µV	93,000 µV
AP-8283		300	75	29 dB	28 dB	2.9 dB	2.8 dB	29,000 µV	93,000 µV
AP-8700		75	75	17 dB	19 dB	2.8 dB	2.8 dB	110,000 µV	93,000 µV
AP-8703		300	75	17 dB	19 dB	3.9 dB	3.9 dB	110,000 µV	93,000 µV
AP-8733	300	300	75	17 dB	19 dB	3.9 dB	3.9 dB	110,000 µV	93,000 µV
AP-8780		75	75	17 dB	28 dB	2.9 dB	2.7 dB	110,000 µV	30,000 µV
AP-8783		300	75	17 dB	28 dB	3.9 dB	3.9 dB	110,000 µV	30,000 µV
AP-8800		75	75	29 dB	19 dB	2.7 dB	2.8 dB	29,000 µV	93,000 µV
AP-8803		300	75	29 dB	19 dB	3.9 dB	3.9 dB	29,000 µV	93,000 µV
AP-8833	300	300	75	29 dB	19 dB	3.9 dB	3.9 dB	29,000 µV	93,000 µV

Output capability is stated for 7 VHF and 5 UHF channels at -46 dB cross modulation.





DA-1009



DA-1018
DA-1036

DISTRIBUTION AMPLIFIERS

Winegard's new DA-1009, DA-1018 and DA-1036 distribution amplifiers provide the CATV/MATV system installer with the latest RF circuitry available. Noise figure, gain, VSWR and all other specifications are carefully engineered to maintain the highest signal quality. Circuitry designed for maximum stability and housed in rugged aluminum housing for years of maintenance free service.

Features

- No external power supply, one piece construction
- Extruded aluminum housing providing excellent heat dissipation (DA-1018/1036 only)
- Variable gain adjustment (DA-1018/1036 only)
- Selectable FM trap (DA-1018/1036 only)
- Rugged 3-prong power cord
- High-tech surface mounted components
- Push-pull amplifier design allows higher input levels with no distortion of signal

Specifications

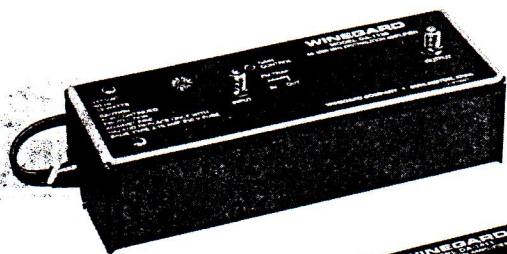
	DA-1009	DA-1018	DA-1036
Output per Channel, dBmV*			
6 Channels	59	55	56
12 Channels	56	52	53
36 Channels	51	47	49
52 Channels	49	46	47
Input per Channel, dBmV*			
6 Channels	50	38	19
12 Channels	47	35	16
36 Channels	42	29	11
52 Channels	40	27	9
Gain	9.5 dB	18 dB	37 dB
Variable Gain	NA	14 dB avg.	14 dB avg.
Bandpass	40-1000 MHz	40-1000 MHz	40-1000 MHz
Response	±1.5 dB <900 MHz	±1 dB <900 MHz	±1 dB <900 MHz
Flatness	40-810 MHz ±1.5 dB 810-900MHz ±1.5 dB	40-810 MHz ±1.0 dB 810-1000 MHz ±1.5 dB	40-810 MHz ±1.0 dB 810-1000 MHz ±1.5 dB
Impedance	75 ohm	75 ohm	75 ohm
VSWR			
Input	40-300 MHz 1.7 max. 300-900 MHz 1.9 max.	1.5 max. 2.1 max.	1.7 max. 2.6 max.
Output	40-300 MHz 1.7 max. 300-900 MHz 1.9 max.	1.7 max. 2.6 max.	1.7 max. 1.9 max.
Return Loss			
Input	40-300 MHz 12 dB max. 300-900 MHz 10 dB max.	14 dB max. 9 dB max.	12 dB max. 7 dB max.
Output	40-300 MHz 12 dB max. 300-900 MHz 10 dB max.	12 dB max. 7 dB max.	12 dB max. 10 dB max.
Noise Figure w/o FM Trap			
40-500 MHz	6 dB max.	6 dB max.	5.5 dB max.
500-900 MHz	7 dB max.	7 dB max.	7 dB max.
Power Requirements	117 VAC, 60 Hz, 10W	117 VAC, 60 Hz, 12W	117 VAC, 60 Hz, 22W
FM Trap	NA	24 dB, Switch	24 dB, Switch
Operating Temperature	-30°F to +140°F	-30°F to +140°F	-30°F to +140°F
Cabinet	Aluminum	Extruded Aluminum	Extruded Aluminum
Dimensions	8-1/2" x 3" x 2-1/16"	9-1/16" x 5-1/4" x 2-5/16"	9-1/16" x 5-1/4" x 2-5/16"

* 0.5% cross modulation



DISTRIBUTION AMPLIFIERS

Winegard's new DA-1118, DA-1127, DA-1136 and DA-1411 distribution amplifiers provide the CATV/MATV system installer with the latest RF circuitry available. Noise figure, gain, VSWR and all other specifications are carefully engineered to maintain the highest signal quality. Circuitry is designed for maximum stability and housed in rugged aluminum housing for years of maintenance free service. Model DA-1118 replaces DA-8050 and DA-8150. Model DA-1127 replaces DA-0825 and DA-8300. Model DA-1136 replaces DA-2400. Model DA-1411 replaces BC-7820.



DA-1118, DA-1127
DA-1136



DA-1411

Features

- No external power supply, one piece construction
- Aluminum housing providing excellent heat dissipation
- Variable gain adjustment (DA-1127 & DA-1136 ONLY)
- Selectable FM trap
- Rugged 3-prong power cord
- High-tech surface mounted components

Specifications

	DA-1118	DA-1127	DA-1136	DA-1411
Output per Channel, dBmV*				
6 Channels	56	56	56	49.5
12 Channels	53	53	53	46.5
36 Channels	48	48	47	41
52 Channels	46	46	45	40
Input per Channel, dBmV*				
6 Channels	37	30	19	37
12 Channels	34	27	16	34
36 Channels	29	22	10	28.5
52 Channels	28	19	8	27.5
Gain	18 dB	26 dB	37 dB	12.5 dB
Variable Gain	N/A	14 dB avg.	14 dB avg.	NA
Bandpass	40-1000 MHz	40-1000 MHz	40-1000 MHz	40-1000 MHz
Response	±1 dB <900 MHz	±1 dB <900 MHz	±1 dB <900 MHz	±1 dB <900 MHz
Flatness	40-810 MHz ±1.0 dB 810-1000MHz ±1.5 dB	±1.0 dB ±1.5 dB	±1.0 dB ±1.5 dB	±1.0 dB ±1.5 dB
Impedance	75 ohm	75 ohm	75 ohm	75 ohm
VSWR				
Input	40-500 MHz 2.1 max. 500-1000 MHz 1.5 max.	40-300 MHz 1.9 max. 300-1000 MHz 1.5 max.	40-600 MHz 1.6 max. 600-900 MHz 1.8 max.	40-300 MHz 1.9 max. 300-900 MHz 1.7 max.
Output	40-500 MHz 1.9 max. 500-1000 MHz 2.1 max.	40-300 MHz 1.9 max. 300-1000 MHz 2.6 max.	40-900 MHz 1.9 max.	40-300 MHz 2.6 max. 300-1000 MHz 1.8 max.
Return Loss				
Input	40-500 MHz 9 dB max. 500-1000 MHz 14 dB max.	40-300 MHz 10 dB max. 300-1000 MHz 14 dB max.	40-600 MHz 13 dB max. 600-900 MHz 11 dB max.	40-300 MHz 10 dB max. 300-900 MHz 12 dB max.
Output	40-500 MHz 10 dB max. 500-1000 MHz 9 dB max.	40-300 MHz 10 dB max. 300-1000 MHz 7 dB max.	40-900 MHz 10 dB max.	40-300 MHz 7 dB max. 300-1000 MHz 11 dB max.
Noise Figure w/o FM Trap	40-500 MHz 6 dB max. 500-900 MHz 7 dB max.	40-800 MHz 7 dB max. 800-1000 MHz 8 dB max.	40-900 MHz 7 dB max.	40-1000 MHz 6 dB max.
Power Requirements	117 VAC, 60 Hz, 8W	117 VAC, 60 Hz, 10W	117 VAC, 60 Hz, 11W	117 VAC, 60 Hz, 8W
FM Trap	24 dB, Switch	24 dB, Switch	24 dB, Switch	24 dB, Switch
Operating Temperature	-30°F to +140°F	-30°F to +140°F	-30°F to +140°F	-30°F to +140°F
Cabinet	Aluminum	Aluminum	Aluminum	Aluminum
Dimensions	8-1/2" x 3" x 2-1/16"	8-1/2" x 3" x 2-1/16"	8-1/2" x 3" x 2-1/16"	8-1/2" x 3" x 2-1/16"

* 0.5% cross modulation



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