

Sample and Hold Amplifiers

SEM478

Mfr.	Pins	Description
298	BB 8/DIL	Sample and Hold Amp. with under 10µs acquisition time and hold performance optimised by external capacitor
398	NSC 8/DIL	Sample and Hold Amp. (enhanced LF398N).....
398	PS 14	Sample and Hold Amp. 4µs acquisition, 1.0mV typ. hold step.....
398	NSC 8/TO-99	Sample and Hold Amp. 4µs acquisition, 1.0mV typ. hold step.....
398	PS 8/DIL	Sample and Hold Amp. 4µs acquisition, 1.0mV typ. hold step.....
398	NSC 8/DIL	Sample and Hold Amp. 4µs acquisition, 1.0mV typ. hold step.....
585	AD 14/DIL	Sample and Hold Amp. 3µs acquisition, 3mV typ. hold step, internal capacitor.....
783	AD 8	High Speed Sample and Hold Amp. 250nS Acquisition Time. Internal Capacitor
2425	INTS 14/DIL	Sample and Hold Amp. 4µs acquisition, 10mV typ. hold step.....
5320	INTS 14/DIL	Sample and Hold Amp. 1µs acquisition, 1.0mV typ. hold step, internal capacitor
5320	INTS 14/DIL	High Speed Sample and Hold Amp. 1µs acquisition, 1.0mV typ. hold step, internal capacitor.....
5330	INTS 14/DIL	High Speed Sample and Hold Amp. 500ns acquisition, 0.5mV typ. hold step, internal capacitor.....
5537	PS 8/DIL	Sample and Hold Amp. 4µs acquisition, 1.0mV typ. hold step.....

Mfrs. List No.	Order Code	1+	10+	100+	250+	500+
SHC298AJP	791-945					
LF398AN	205-503					
LF398D	SMD 402-084					
LF398H	402-096					
LF398N	402-102					
LF398N	402-114					
AD585AQ	402-163					
AD783JR	SMD 318-2344					
HA3-2425-5	402-230					
HA1-5320-5	402-266					
HA3-5320-5	633-410					
HA1-5330-5	402-278					
NE5537N	402-280					

Miscellaneous Amplifiers

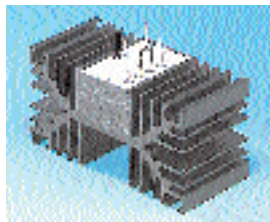
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Mfr.	Pins	Description
103	BB 8/DIL	Programmable Gain Amp., decade model with gains 1, 10, 100
452	BB 7/TO-220	High Voltage (80V)/High Current (50mA) Operational Amp. (IND TEMP)
526	AD 16/DIL	Software Programmable Gain Amp. Gains of 1, 2, 4, 8, 16
526	AD 16/DIL	Software Programmable Gain Amp. Gains of 1, 2, 4, 8, 16
547	BB 7/D2PAK	High Voltage/High current Power Operational Amp, operates from single or dual supplies.....
547	BB 7/TO-220	High Voltage/High current Power Operational Amp, operates from single or dual supplies.....
549	AD 8/TO-99	Electrometer Amp.
549	AD 8/TO-99	Ultra-low Input Bias Current Electrometer Operational Amp.
951	MAX 8/DIL	Low Power, Single Supply Operational Amp. and Comparator with internal reference. (IND TEMP).....
1250	LT 8/DIL	Low Noise, Zero-Drift Bridge Amplifier
4102	MAX 8	250MHz, Low Power Amp.....
4106	MAX 8	350MHz, Ultra-Low-Noise Amp.....
6001	NSC 8/DIL	Electrometer Amp.
8037	AD 8/DIL	Low Distortion, Wide bandwidth Clamping Amp.....
14575	ON 16/DIL	Dual Programmable Operational Amp. & Dual Programmable Comparator.....

Mfrs. List No.	Order Code	1+	10+	100+	250+	500+
PGA103P	632-946					
OPA452TA	NEW 353-4881					
AD526AD	402-140					
AD526JN	642-770					
OPA547F	SMD 101-886					
OPA547T	101-898					
AD549JH	402-151					
AD549LH	318-2186					
MAX951EPA	702-687					
LTC1250CN8	699-949					
MAX4102ESA	SMD 794-650					
MAX4106ESA	SMD 794-661					
LMC6001CIN	705-457					
AD8037AN	786-998					
MC14575P	702-810					

Power Amplifiers

Power Amplifiers



These encapsulated amplifier modules are electronically protected and come with integral heatsink.

- 4 or 8Ω
- Wide frequency response
- Integral heatsink (convection cooling)
- Short circuit overload protection
- Dimensions: W = 110mm, H = 50mm, D = 55mm

100 Watt Power Amplifier Order Code **111-843** each
100 Watt Power Supply Unit Order Code **111-855** each

Parameter	Value
Output Power (4 Ohms)	100 Watts RMS
Frequency Response (-3dB)	5Hz to 50KHz
THD @ 1KHz	0.025%
S/N Ratio	95dB
Slew Rate	15V/µs
Input Sensitivity	500mV RMS
Damping Factor	>200
Supply Voltage	±40 Volts

Note: For 8Ω operation one power supply will supply two such modules.
 For 4Ω operation one power supply per module is required.



The HY series of Power Amplifier Modules are a versatile range of building blocks for constructing high quality **audio amplifiers** with a minimum of additional components.

These modular hybrid amplifiers have been designed using Bipolar technology to provide high fidelity performance. Encapsulation to an integral heatsink together with internal circuitry providing output stage protection make them extremely rugged, both electrically and mechanically, and therefore suitable for all audio applications. For loudspeaker protection the use of a quickblow fuse is recommended – please refer to the data sheet.

The modules require only five electrical connections, and should be mounted to allow a vertical flow of air through the pins. T slots in the heatsink facilitate mounting using the nuts and screws provided.

	HY60	HY124	HY128
Output Power Into 4 ohms (rms).....	—	60W	—
Output Power Into 8 ohms (rms).....	30W	—	60W
Power Supply Voltage (dc)	±25V	±25V	±35V
Loudspeaker fuse (Quick Blow)	1.5A	2.5A	2.0A
Module Dimensions H x W (mm).....	40 x 76	40 x 120	40 x 120

SEM92

Typical Specifications (all amplifiers)

Parameter	Value
Frequency Response (-3dB).....	15Hz-50kHz
Total Harmonic Distortion @ 1KHz (modules up to 30 watts).....	<0.015%
Total Harmonic Distortion @ 1KHz (modules 60 watts and above).....	<0.01%
Signal to Noise Ratio (DIN AUDIO).....	100dB
Input Impedance.....	100K ohms
Load Impedance.....	8Ω-∞
Damping Factor (8 ohms @ 100Hz)	>400

Mfrs. List No.	Order Code	1+	5+	10+
HY60	402-321			
HY124	203-786			
HY128	203-798			