LA4160 monolithic linear IC

CIRCUIT DRAWING No.2068

SINGLE-CHIP AF AMP. SYSTEM FOR TAPE RECORDER


3005A

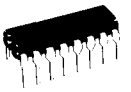
Features

- A single package containing preamplifier, ALC circuit, power amplifier.
- Preamplifier with high gain, and power amplifier with high gain and output.
  1W typ. (V_{CC}=6V, R_L=4ohm).
  2.2W typ. (V_{CC}=9V, R_L=4ohm).
- Minimum number of external parts required.
- Soft tone at the time of output saturation.
- Wide range of ALC and small variation in output voltage.
- Wide range of operating supply voltage.
- Small pop noise at the time of supply voltage ON/OFF (With built-in rejecter).
- Variable monitor capability due to recording amplifier consisting of preamplifier alone.

LA4162 monolithic linear IC

CIRCUIT DRAWING No.2069

SINGLE-CHIP TAPE RECORDER AUDIO SYSTEM


3006A

Features

- A single package containing preamplifier, ALC circuit, power amplifier
- Preamplifier with high gain, and power amplifier with high gain and output
- Minimum number of external parts required
- Soft tone quality at the time of output saturation
- Wide range of ALC and small variation in output voltage
- Small pop noise at the time of supply voltage ON/OFF (With built-in prevention circuit)
- Variable monitor capability due to recording amplifier consisting of preamplifier alone

LA4170 monolithic linear IC

CIRCUIT DRAWING No.2070

2-CHANNEL AMPLIFIER FOR HEADPHONE


3005A

Features

- Wide operating supply voltage: 8 to 12V.
- Small pop noise due to emitter feedback.
- Fewer external parts, 2 channel amps contained.
- Small output noise voltage.

LA4175 monolithic linear IC

CIRCUIT DRAWING No.2071

2-CHANNEL HEADPHONE AMPLIFIER


3005A

Use

Suitable for amplifiers as line output, output of recording amp. and meter amp. or a driver of headphone amplifier.

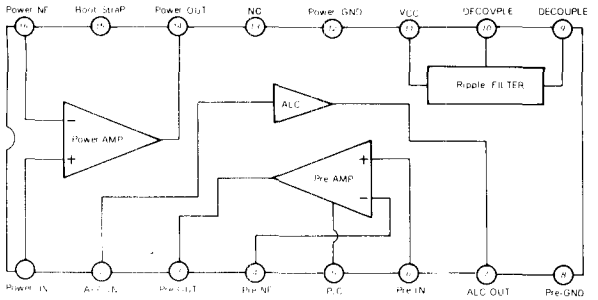
Features

- Wide operating supply voltage range.
- Small pop noise.
- Built-in 2 channels.

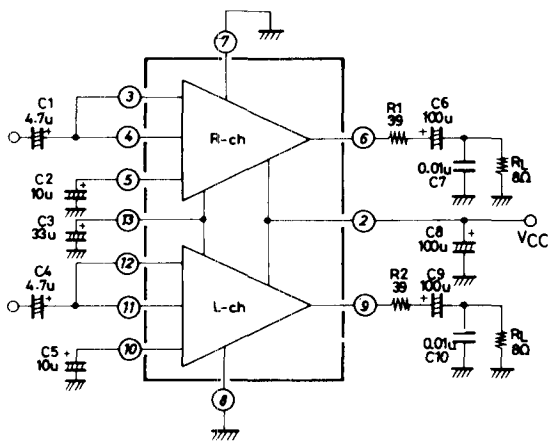
AF POWER AMPLIFIERS (monolithic integrated circuit)

Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications	Recommended V C C [V]	Main Specifications			
		Package	Pins	Package No.				Po/THD.RL [W]/[%],[Ω]	VG Closed Loop[dB]	THD/Po [%max]/[W]	Icco [mAmax]
LA4260	133	SEP	10F	3018A	2077	2.5W typ 2-Channel AF Power Amp for Home Stereo	14	2.5×2/10.8	50	1.0/0.5	45typ
LA4261	133	SEP	10F	3018A	2077	3.5W typ 2-Channel AF Power Amp for Home Stereo	16	3.5×2/10.8	50	1.0/0.5	46typ
LA4265	133	SEP	10F	3018A	2075	3.5W typ 1-Channel AF Power Amp for General-Purpose TV	16	3.5/10.8	50	1.0/0.5	25typ
◎LA4270	133	SEP	10H	3024A	2076	6.5W typ 2-channel AF Power Amp for Home Stereo	25	6.5/1.8	40	1.0/0.5	50typ
LA4510	137	SEP	9	3017B	2085	0.24W typ AF Power Amp for Low-Voltage Use	3.0/4.5	0.24/10.4	45	1.5/0.1	12
LA4140	130	SEP	9	3017B	2065	0.5W typ AF Power Amp for Tape Recorder,Radio	6	0.5/10,8	50	1.0/0.1	11typ
LA4145	130	SEP	9	3017B	2066	0.6W typ AF Power Amp for Tape Recorder,Radio	6	0.6/6.8	50	1.0/0.1	10typ
LA4146	130	SEP	9	3017B	2066	0.6W typ AF Power Amp for musical miniinstrument	6	0.6/6.8 0.9/6.4	50	1.0/0.1	5typ
LA4147	130	SEP	9	3017B	2067	0.6W typ AF Power Amp for Tape Recorder,Radio	6	0.6/6.8 0.9/6.4	50	1.0/0.1	10typ
LA4100	129	DIP	14T	3005A	2062	1.0W typ AF Power Amp for Tape Recorder,Radio	6	1.0/10,4	45	1.5/0.25	25
LA4101	129	DIP	14T	3005A	2062	1.5W typ AF Power Amp for Tape Recorder,Radio	7.5	1.5/10.4	45	1.5/0.25	25
LA4137	129	DIP	14T	3005A	2064	1.8W typ AF Power Amp for Tape Recorder,Radio	7.5	1.8/10.3.2	51	2.0/0.3	25
LA4102	129	DIP	14T	3005A	2062	2.1W typ AF Power Amp for Tape Recorder,Radio	9	2.1/10.4	45	1.5/0.25	25
LA4138	129	DIP	14T	3005A	2064	2.7W typ AF Power Amp for Tape Recorder,Radio	9	2.7/10,3.2	51	2.0/0.3	25
LA4162	131	DIP	16	3006A	2069	0.5W typ 1-Chip AF Power Amp System for Tape Recorder	6	0.5/10,8	Pre40, Power45	1.5/0.1	18typ
LA4160	131	DIP	14T	3005A	2068	1 to 2.2W typ 1-Chip AF Amp System for Tape Recorder	6 7.5 9	1.0/10,4 1.5/10,4 2.2/10.4	Pre40, Power45	1.5/0.25 1.5.0.25 1.5/0.25	30(6V) - 40(9V)
◎LA4550	138	DIP	12F	3022A	2089	1.0W typ 2-Channel (2.8W typ for Br.)	6to9	1.0×2/10.4	51	0.3typ/0.25	15typ
LA4120	129	DIP	18H	3009A	2063	1W typ 2-Channel (3.5W typ for Br.)	6	1.0×2/10.4	45×2	1.5/0.25	50
LA4180	132	DIP	12F	3022A	2072	1W typ 2-Channel (2.8W typ for Br.)	6	1.0×2/10.4	45×2	1.5/0.25	55
LA4190	133	DIP	12F	3022A	2074	1W typ 2-Channel (2.8W typ for Br.)	6	1.0×2/10.4	50×2	2.0/0.25	55
LA4125	129	DIP	18H	3009A	2063	2.4W typ 2-Channel (7.7W typ for Br.)	9	2.4×2/10.4	45×2	1.5/0.25	55
LA4126	130	DIP	18H	3009A	2063	2.4W typ 2-Channel (7.7W typ for Br.)	9	2.4×2/10.4	45×2	1.5/0.25	55
LA4182	132	DIP	12F	3022A	2072	2.3W typ 2-Channel (4.7W typ for Br.)	6to9	2.3×2/10.4	45×2	1.5/0.25	55
LA4183	132	DIP	12F	3022A	2072	2.3W typ 2-Channel (4.7W typ for Br.)	9	2.3×2/10.4	45×2	1.5/0.25	55
◎LA4555	138	DIP	12F	3022A	2089	2.3W typ 2-Channel (4.5W typ for Br.)	6to9	2.3×2/10.4	51×2	0.3typ/0.25	17typ
LA4185	132	SEP	14H	3023A	2073	2.4W typ 2-Channel (7.7W typ for Br.)	9	2.4×2/10.4	45×2	1.5/0.25	55
LA4192	133	DIP	12F	3022A	2074	2.3W typ 2-Channel (4.7W/8Ω typ for Br.)	9	2.3×2/10.4	50×2	2.0/0.25	55
LA4125T	129	DIP	18H	3009A	2063	4.2W typ 2-Channel (9W/8Ω typ for Br.)	12	4.2×2/10.4	45×2	1.5/0.25	60

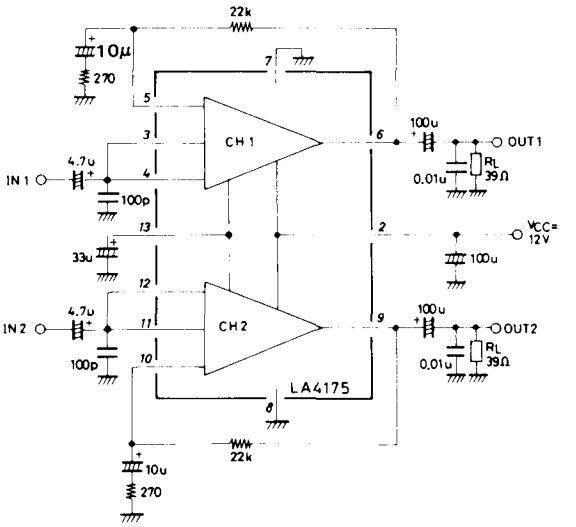
2069:LA4162
EQUIVALENT CIRCUIT BLOCK DIAGRAM



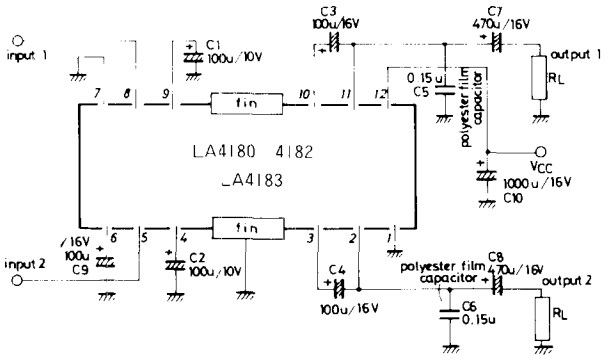
2070:LA4170
APPLICATION: 2 Channel Headphone Amp.



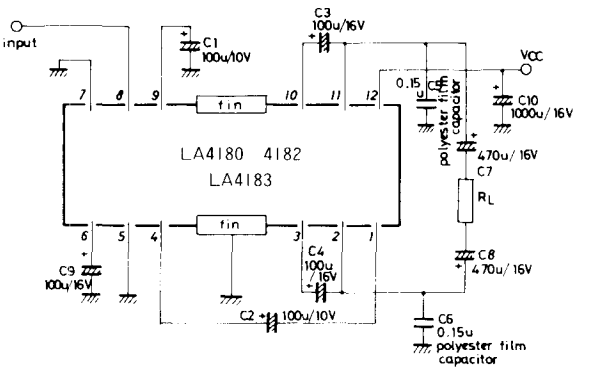
2071:LA4175
APPLICATION: Stereo Headphone Amplifier



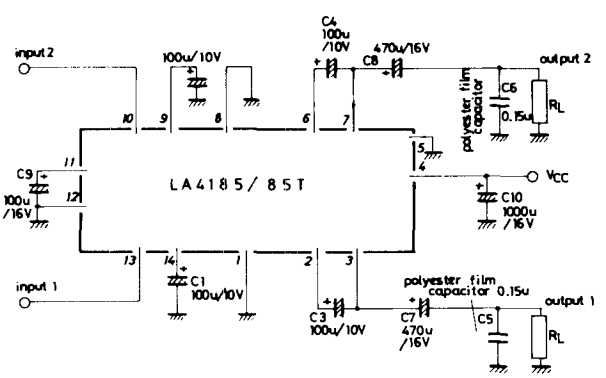
2072:LA4180,4182,4183
APPLICATION 1: Stereo



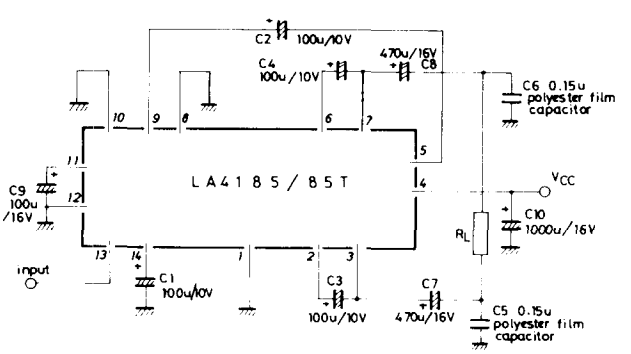
APPLICATION 2: Bridge Amp.



2073:LA4185,4185T
APPLICATION 1: Stereo



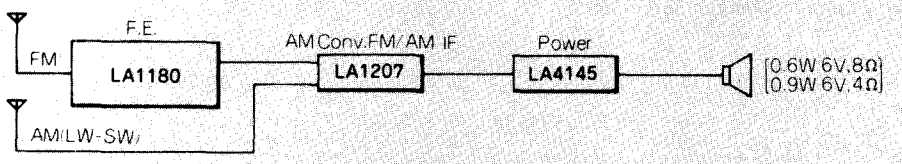
APPLICATION 2: Bridge Amp.



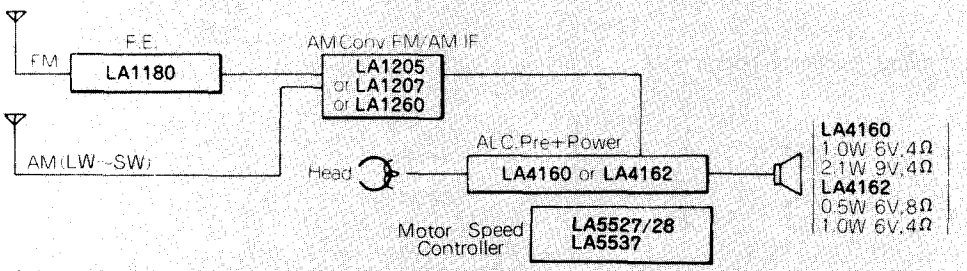
4. RADIO CASSETTES

* Under development

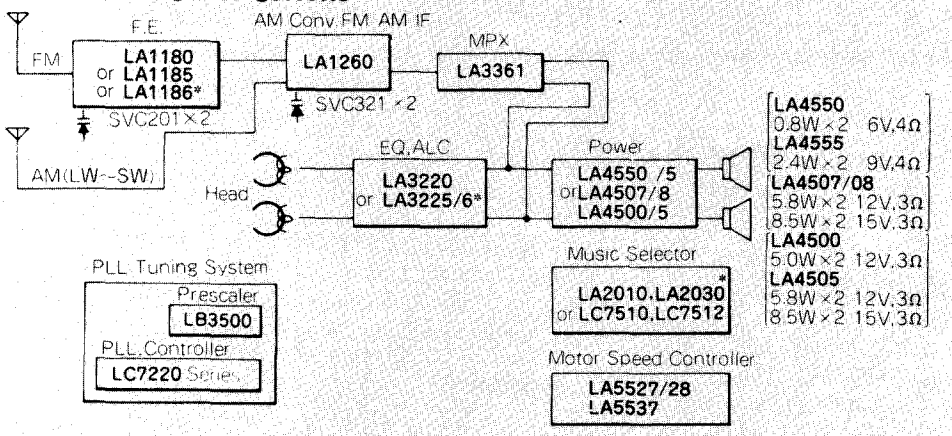
(a) Popular Type Monaural Radio



(b) Popular Type Monaural Cassette



(c) Middle-Grade Stereo Cassette



(d) High-Grade Stereo Radio Cassette