



### Pin Descriptions

(AN6557)

Pin No.	Pin name
1	V <sub>CC</sub>
2	Ch. 1 output
3	Ch. 1 inverting input
4	Ch. 1 non inverting input
5	V <sub>EE</sub> (GND)
6	Ch. 2 non inverting input
7	Ch. 2 inverting input
8	Ch. 2 output
9	V <sub>CC</sub>

(AN6558, AN6558S)

Pin No.	Pin name
1	Ch. 1 output
2	Ch. 1 inverting input
3	Ch. 1 non inverting input
4	V <sub>EE</sub> (GND)
5	Ch. 2 non inverting input
6	Ch. 2 inverting input
7	Ch. 2 output
8	V <sub>CC</sub>

### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Parameter		Symbol	Rating	Unit
Voltage	Supply voltage	V <sub>CC</sub>	±18	V
	Differential input voltage	V <sub>ID</sub>	±30	V
	Common-mode input voltage	V <sub>ICM</sub>	±15	V
Power dissipation	AN6557, AN6558	P <sub>D</sub>	500	mW
	AN6558S		360	
Operating ambient temperature		T <sub>opr</sub>	-20 to +75	°C
Storage temperature	AN6557, AN6558	T <sub>stg</sub>	-55 to +150	°C
	AN6558S		-55 to +125	

Operational  
Amplifiers

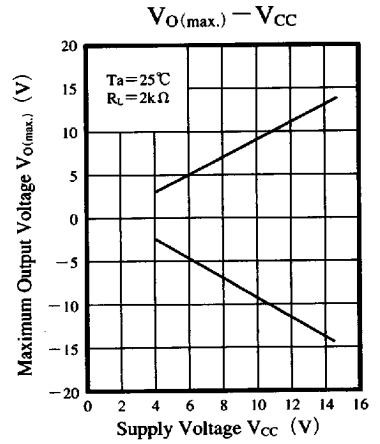
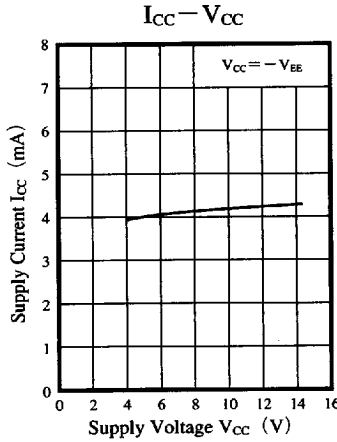
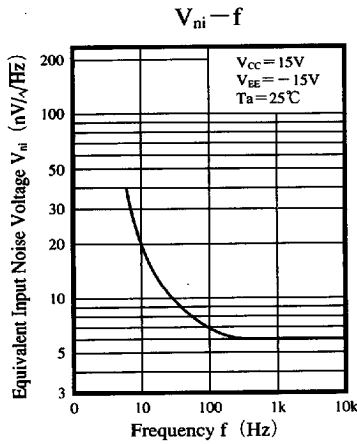
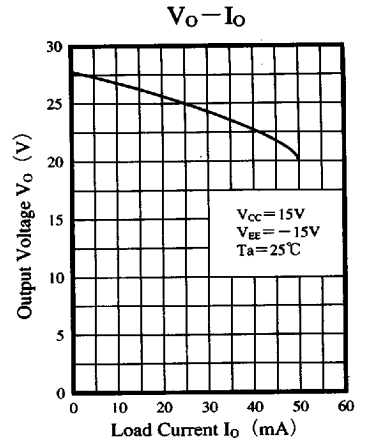
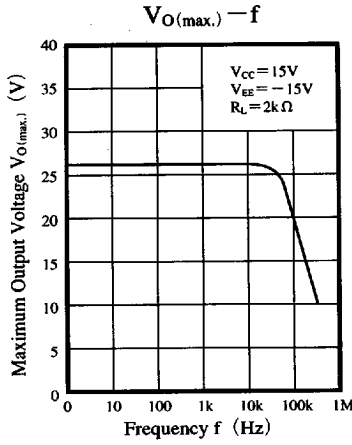
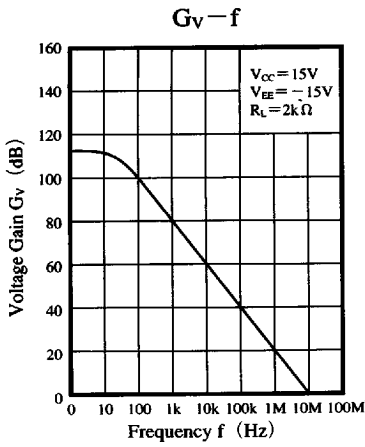
### Electrical Characteristics (V<sub>CC</sub> = 15V, V<sub>EE</sub> = -15V, T<sub>a</sub> = 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Input offset voltage	V <sub>I(offset)</sub>	R <sub>S</sub> ≤ 10kΩ	—	0.3	3	mV
Input offset current	I <sub>IO</sub>		—	10	200	nA
Input bias current	I <sub>Bias</sub>		—	1300	2000	nA
Voltage gain	G <sub>v</sub>	R <sub>L</sub> ≥ 2kΩ, V <sub>O</sub> = ±10V	86	100	—	dB
Maximum output voltage	V <sub>O(max.)</sub>	R <sub>L</sub> ≥ 10kΩ	±12	±14	—	V
		I <sub>O</sub> = 25mA	±10	±12	—	V
Common-mode input voltage width	V <sub>CM</sub>		±12	±14	—	V
Common-mode rejection ratio	CMR		70	100	—	dB
Supply voltage rejection ratio	SVR		—	10	150	μV/V
Power consumption	P <sub>C</sub>	R <sub>L</sub> = ∞	—	150	240	mW
Slew rate	SR	R <sub>L</sub> ≥ 2kΩ	—	6	—	V/μs
Equivalent input noise voltage	V <sub>ni</sub>	R <sub>S</sub> = 1kΩ, DIN/AUDIO	—	0.9	—	μVrms

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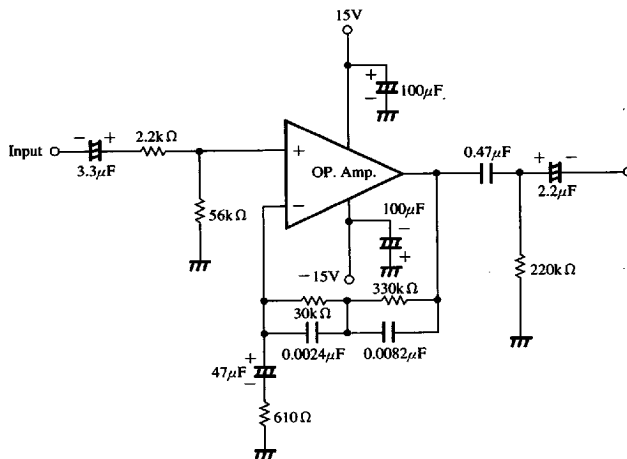
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■ Characteristics Curve



■ Application Circuit

RIAA Amplifier



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