

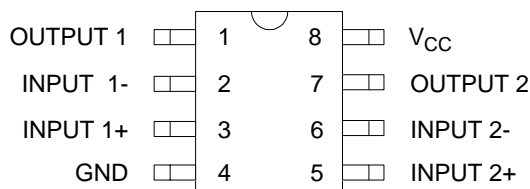
**LOW POWER DUAL OPERATIONAL AMPLIFIERS****AS358/AS358A****Description**

The AS358/358A consist of two independent, high gain and internally frequency compensated operational amplifiers, they are specifically designed to operate from a single power supply. Operation from split power supply is also possible and the low power supply current drain is independent of the magnitude of the power supply voltages. Typical applications include transducer amplifiers, DC gain blocks and most conventional operational amplifier circuits.

The AS358/358A series are compatible with industry standard 358. AS358A has more stringent input offset voltage than AS358.

Features

- Internally Frequency Compensated for Unity Gain
- Large Voltage Gain: 100dB (Typical)
- Low Input Bias Current: 20nA (Typical)
- Low Input Offset Voltage: 2mV (Typical)
- Low Supply Current: 0.5mA (Typical)
- Wide Power Supply Voltage:
Single Supply: 3V to 36V
Dual Supplies: $\pm 1.5V$ to $\pm 18V$
- Input Common Mode Voltage Range Includes Ground
- Large Output Voltage Swing: 0V to $V_{CC}-1.5V$

Pin Configuration**SOIC-8/DIP-8/TSSOP-8****Parametric Table**

Supply Voltage Range (V)		3 to 36
		± 1.5 to ± 18
Input Offset Voltage (Typ/Max) (mV)	AS358	2.0/5.0
	AS358A	2.0/3.0
Quiescent Current Over Full Temperature Range ($V_{CC}=5V$) (mA)		0.5
Large Signal Voltage Gain (dB)		100
CMRR (dB)		70
PSRR (dB)		100
Output Current Source (mA)		40
Output Current Sink (mA)		15
Operating Temperature Range ($^{\circ}C$)		-40 to 85

Applications

- Battery Charger
- Cordless Telephone
- Switching Power Supply

Benefits

- Easier to Use
- Very Competitive Price

Additional Available Materials

- Samples
- Datasheet
- Reliability Report
- ESD Report

**LOW POWER DUAL OPERATIONAL AMPLIFIERS****AS358/AS358A****Ordering Information Example**

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Tin Lead	Lead Free	Tin Lead	Lead Free	
SOIC-8	-40 to 85°C	AS358M	AS358M-E1	AS358M	AS358M-E1	Tube
		AS358MTR	AS358MTR-E1	AS358M	AS358M-E1	Tape & Reel
			AS358AM-E1		AS358AM-E1	Tube
			AS358AMTR-E1		AS358AM-E1	Tape & Reel
DIP-8		AS358P	AS358P-E1	AS358P	AS358P-E1	Tube
			AS358AP-E1		AS358AP-E1	Tube
TSSOP-8			AS358G-E1		EG3A	Tube
			AS358GTR-E1		EG3A	Tape & Reel

Detailed information please refer to the relevant datasheet.

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