

描述 / Descriptions

SOP-8 塑封封装 双通道放大器。Dual Operational Amplifiers in a SOP-8 Plastic Package.

特征 / Features

较大的共模和差动电压范围，放大器之间的增益和相位匹配，内部频率补偿，低噪声输入，工作电压范围在 $\pm 4 \sim \pm 18V$ 。

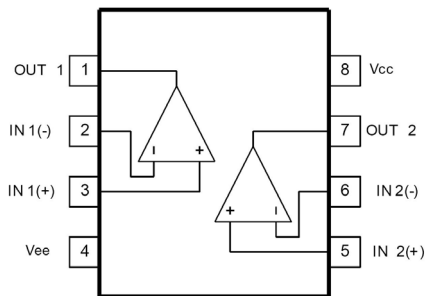
Large common mode and differential voltage range, Gain and phase match between amplifiers, Internally frequency compensated, Low noise input transistors, Operating supply voltage range: ± 4 to $\pm 18V$.

用途 / Applications

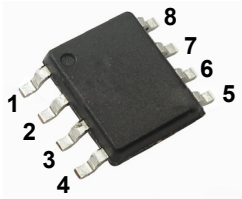
适用于传感器放大器，直流增益模块和所有传统的运算放大器电路。

Application areas include transducer amplifier, DC gain blocks and all the conventional OP amp circuits.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN 见内部等效电路 / PIN See Equivalent Circuit.

印章代码 / Marking

见印章说明 / See Marking Instructions

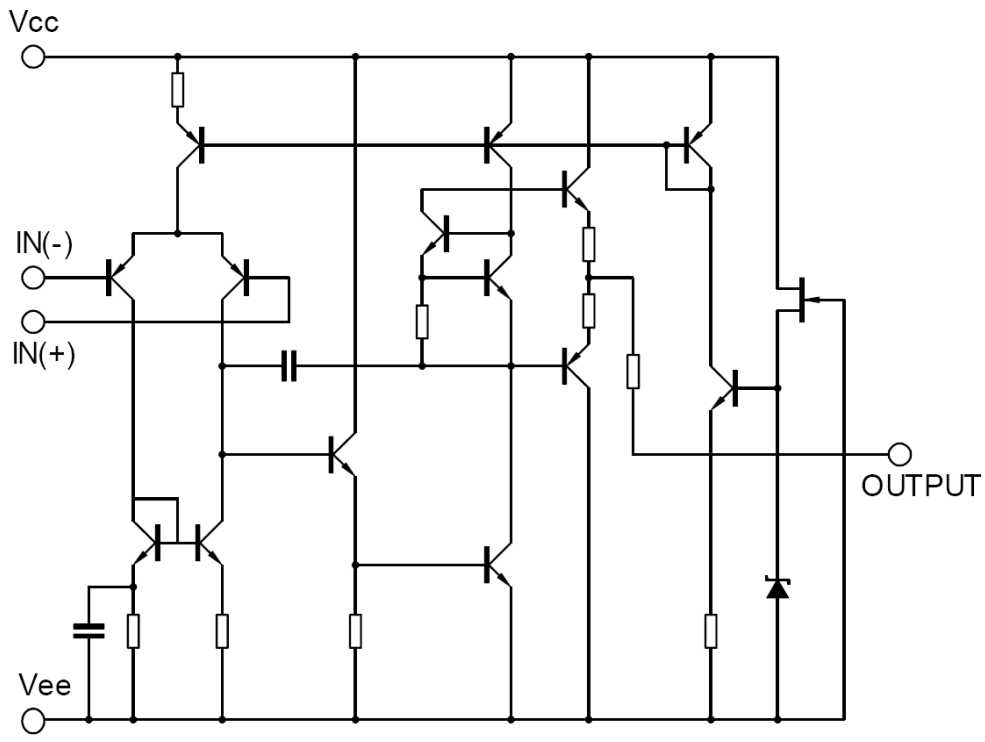
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Supply Voltage	V _{CC}	±22	V
Differential input voltage	V _{I(DIFF)}	±18	V
Input Voltage	V _I	±15	V
Power Dissipation	P _D	300	mW
Operating Temperature	T _{opr}	-40 ~ 85	°C
Storage Temperature	T _{stg}	-40 ~ 125	°C

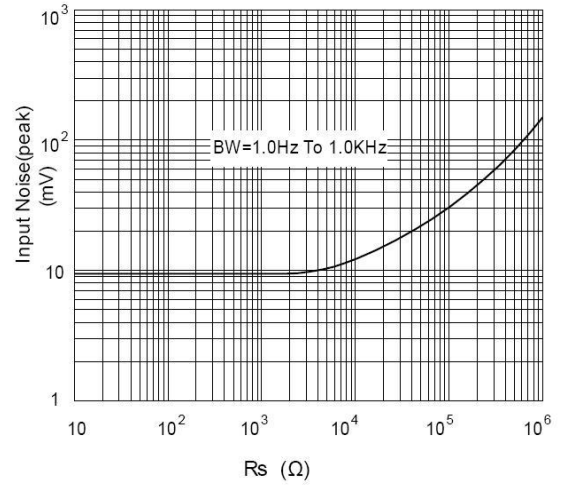
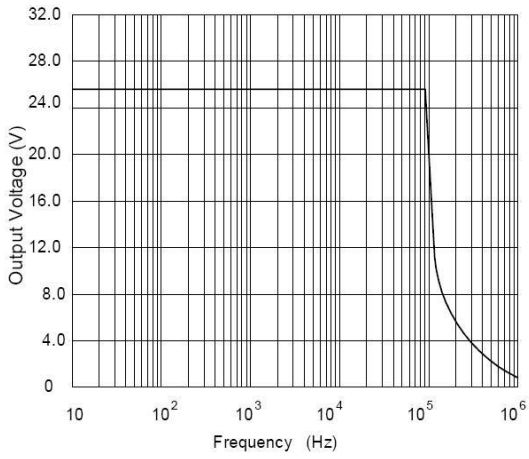
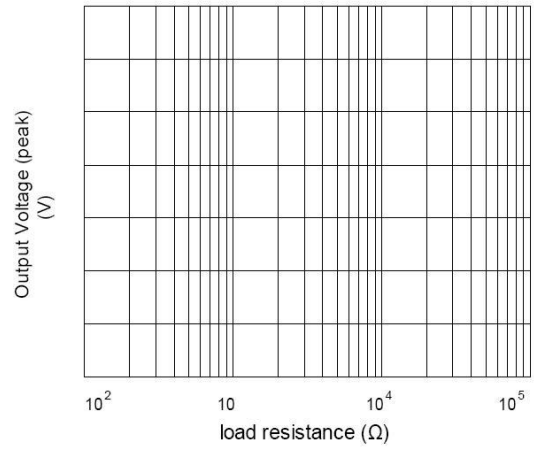
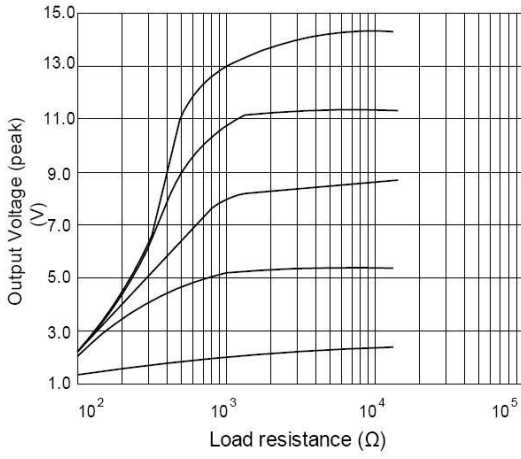
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Input offset voltage	V _{IO}	V _{CC} =15V V _{EE} =-15V R _S <10kΩ		2.0	6.0	mV
Input offset current	I _{IO}	V _{CC} =15V V _{EE} =-15V		5.0	200	nA
Input Bias current	I _{BIAS}	V _{CC} =15V V _{EE} =-15V		30	500	nA
Supply Current	I _{CC}	V _{CC} =15V V _{EE} =-15V		3.5	5.6	mA
Large signal Voltage Gain	G _V	V _{CC} =15V V _{EE} =-15V V _O (p-p)=10V R _L <2kΩ	20	200		V/mV
Common Mode Input Voltage Range	V _{I(R)}	V _{CC} =15V V _{EE} =-15V	±12	±13		V
Common mode rejection Ratio	CMRR	V _{CC} =15V V _{EE} =-15V R _S <10kΩ	70	90		dB
Power supply rejection Ratio	PSRR		76	90		dB
Output Voltage swing	V _{O(P-P)}	V _{CC} =15V V _{EE} =-15V R _L >10kΩ	±12	±14		V
Slew Rate	SR	V _{CC} =15V V _{EE} =-15V V _i =10V R _L >2kΩ C _L <100pF	1.2			V/μS
Rise Time	T _{RIS}	V _{CC} =15V V _{EE} =-15V V _i =20mV R _L >2kΩ		0.3		μS
Overshoot	OS			15		%

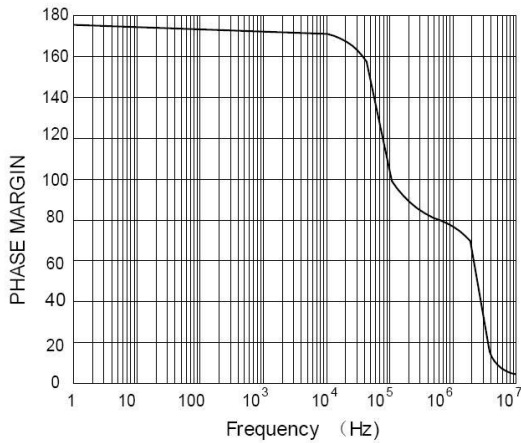
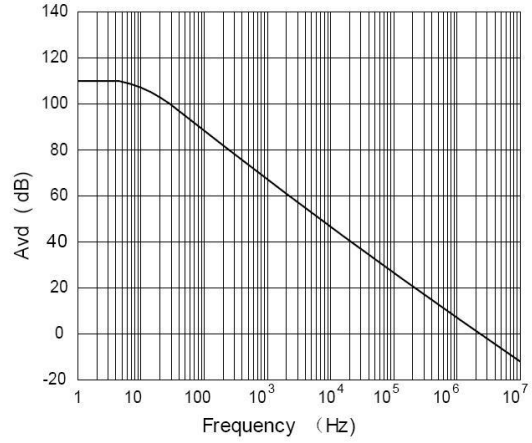
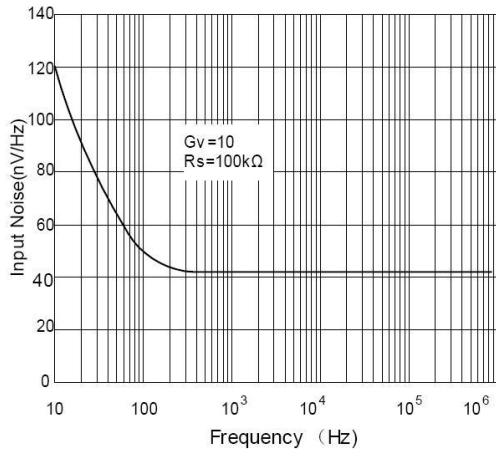
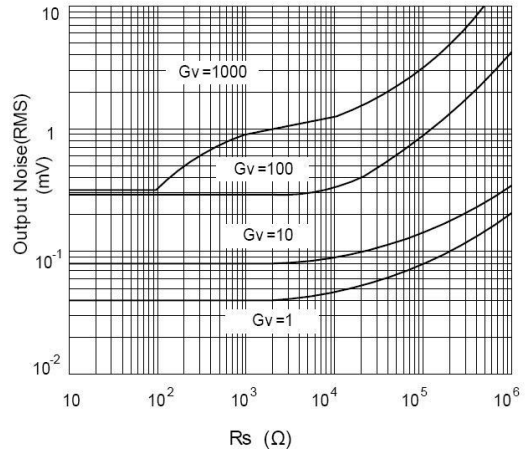
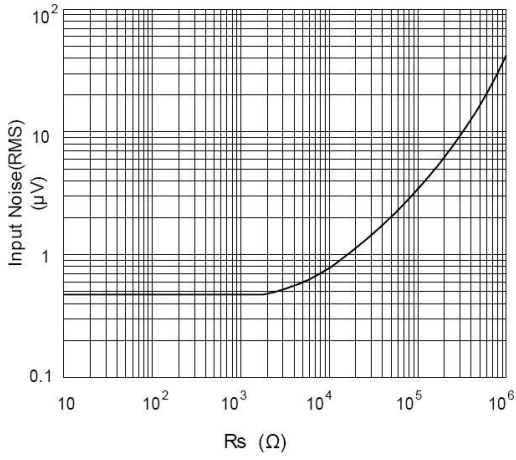
原理框图 / Functional Block Diagram



电参数曲线图 / Electrical Characteristic Curve



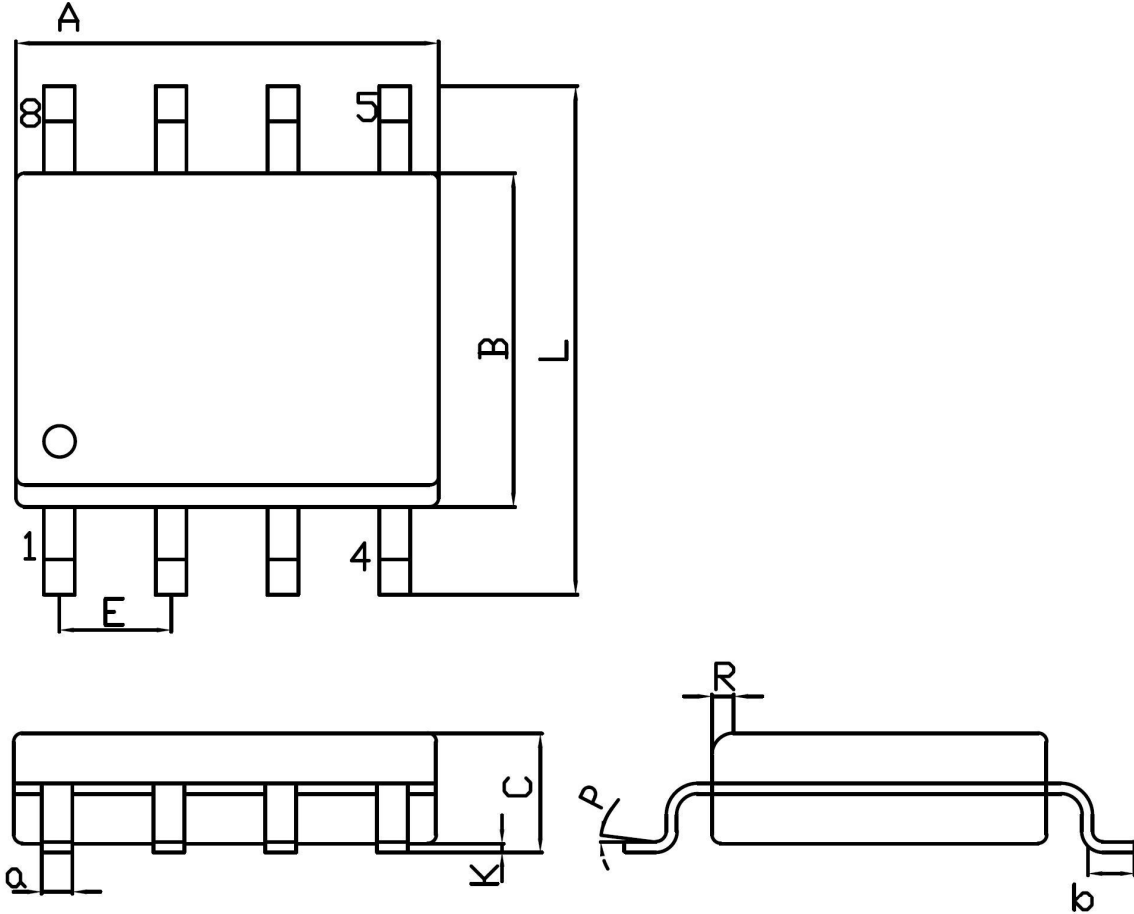
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

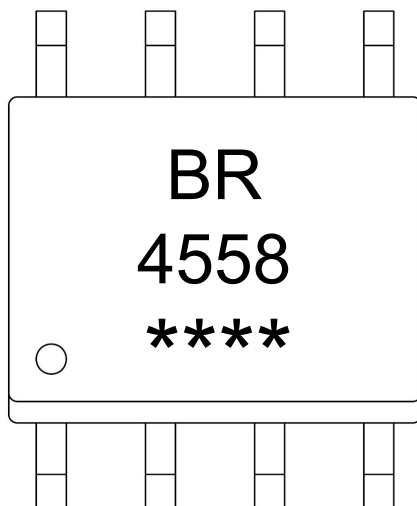
SOP-8

Unit:mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.70	5.10	C	1.35	1.75
B	3.70	4.10	a	0.35	0.49
L	5.80	6.20	R	0.30	0.60
E	1.27BSC		P	0°	7°
K	0.12	0.22	b	0.40	1.25

印章说明 / Marking Instructions



说明：

BR： 为公司代码

4558： 为型号代码

****： 为生产批号代码，随生产批号变化

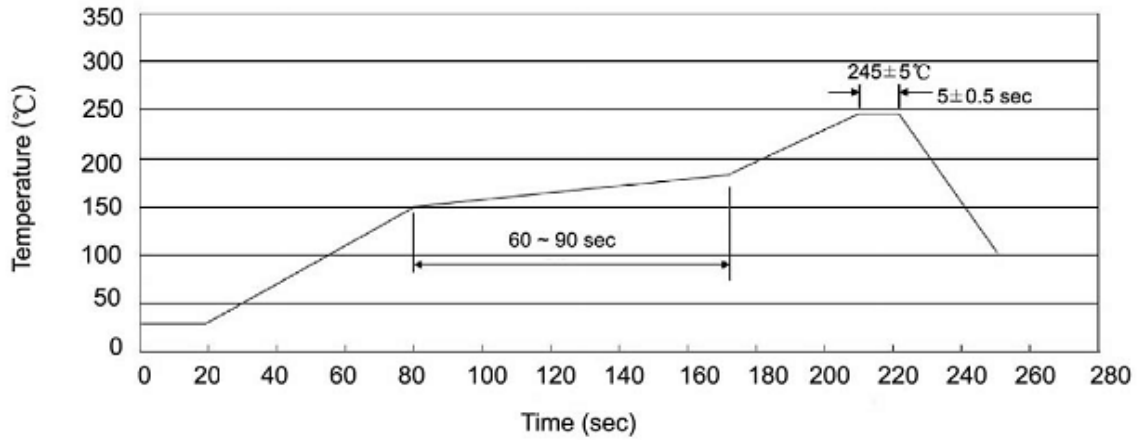
Note:

BR: Company Code.

4558: Product Type.

****: Lot No. Code, code change with Lot No.

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 150 ~ 180°C，时间 60 ~ 90sec；
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec；
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOP/ESOP-8	4,000	2	8,000	6	48,000	13" ×12	360×360×50	380×335×366

使用说明 / Notices