

# LINEAR INTEGRATED CIRCUIT

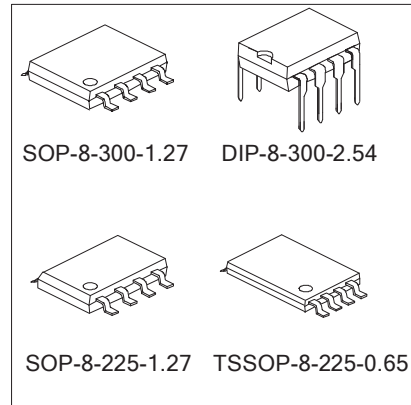
## LR4580/E/M/V

### DUAL OPERATIONAL AMPLIFIER

#### DESCRIPTION

LR4580/E/M/V is the dual operational amplifier, specially designed for improving the tone control., which is most suitable for the audio application.

Featuring noiseless, higher gain bandwidth, high output current and low distortion ratio, and it is most suitable not only for acoustic electronic parts of audio per-amp and active filter, but also for the industrial measurement tools. It is also suitable for the head phone amp at higher output current, and further more, it can be applied for the handy type set operational amplifier of general purpose in application of low voltage single supply type which is properly biased of the input low voltage source.



#### FEATURES

- \* Operating voltage  $(\pm 2 \sim \pm 18V)$
- \* Low input noise voltage  $(0.8\mu V_{rms} \text{ typ.})$
- \* Wide gain bandwidth produce  $(15Mhz \text{ typ.})$
- \* Low distortion  $(0.0005\% \text{ typ.})$
- \* Slew rate  $(5V/\mu s \text{ typ.})$
- \* Package outline SOP8, SIP-8, DIP-8, TSSOP-8

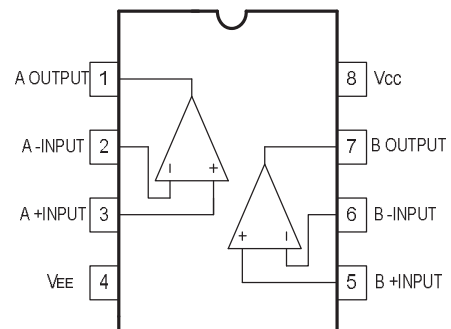
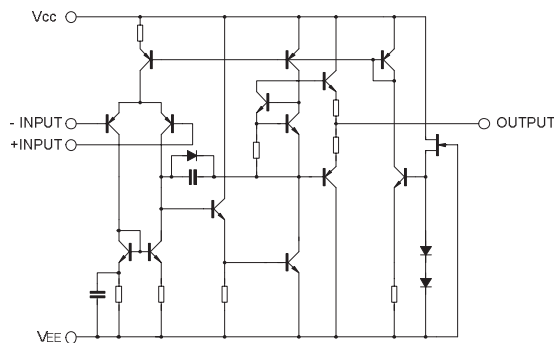
#### ORDERING INFORMATION

Device	package
LR4580	DIP-8-300-2.54
LR4580E	SOP-8-225-1.27
LR4580M	SOP-8-300-1.27
LR4580V	TSSOP-8-225-0.65

#### APPLICATIONS

- \* Audio per-amp;
- \* Head phone amp;
- \* Handy type set;
- \* Measurement tool;

#### BLOCK DIAGRAM



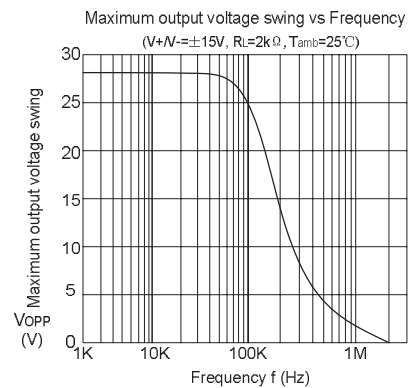
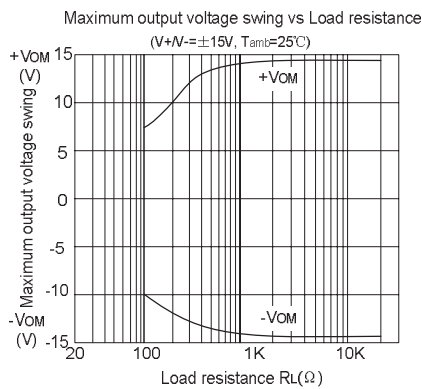
ABSOLUTE MAXIMUM RATINGS (Tamb=25°C)

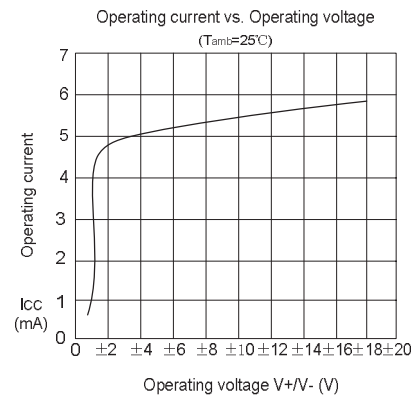
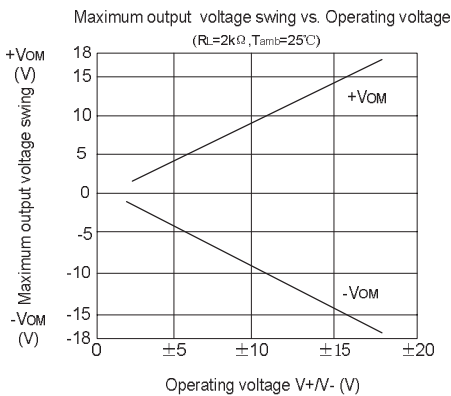
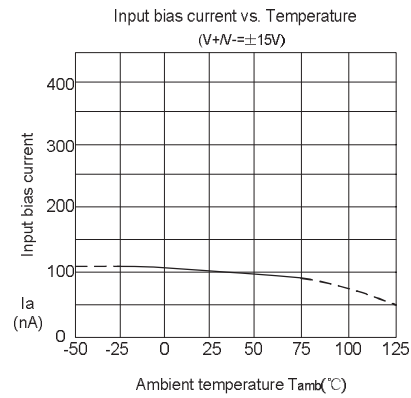
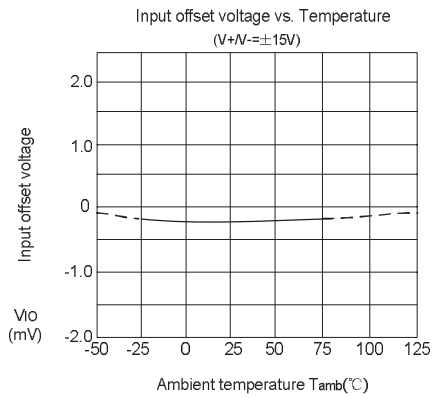
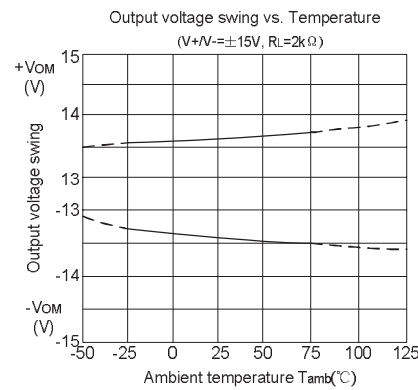
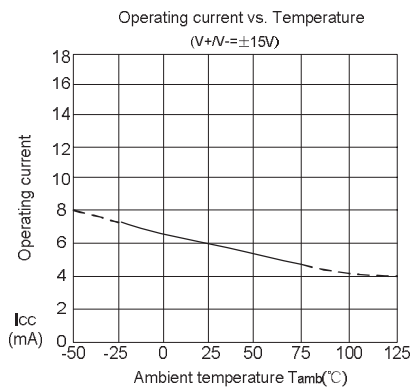
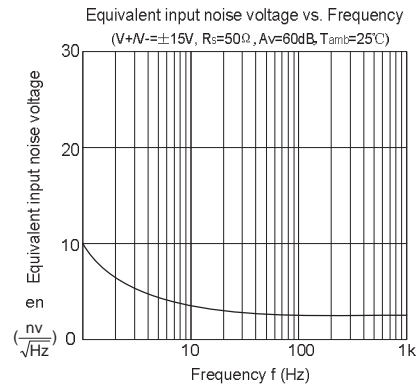
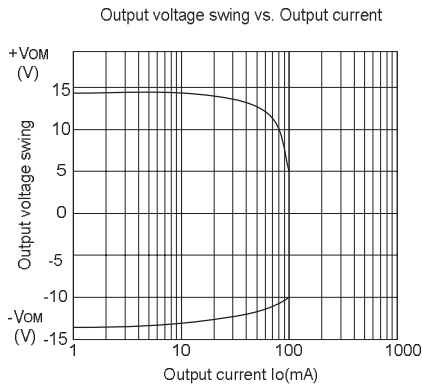
Characteristic	Symbol	Value	Unit
Supply Voltage	V+/V-	±18	V
Input Voltage	VIC	±15	V
Differential Input Voltage	VID	±30	V
Output Current	IO	±50	mA
Power Dissipation	PD	DIP-8	800
		SOP-8-300	350
		SOP-8-225	300
		TSSOP-8	250
Operating Temperature Range	Topr	-20~+75	°C
Storage Temperature Range	Tstg	-40~+125	°C

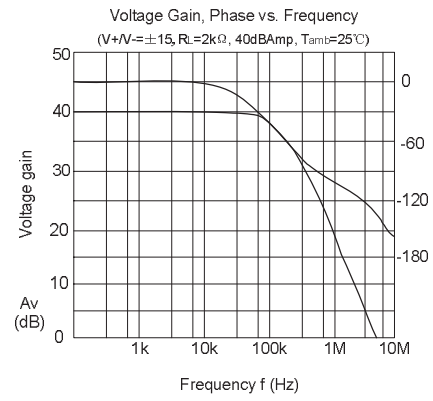
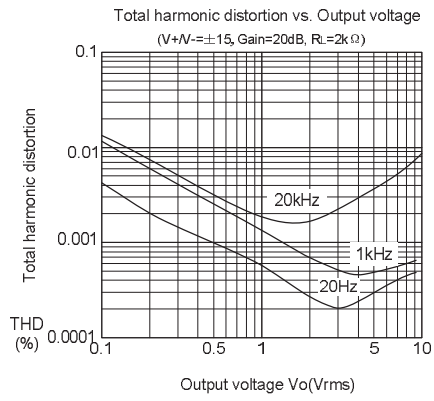
ELECTRICAL CHARACTERISTICS (Tamb=25°C, V+/V- = ±15)

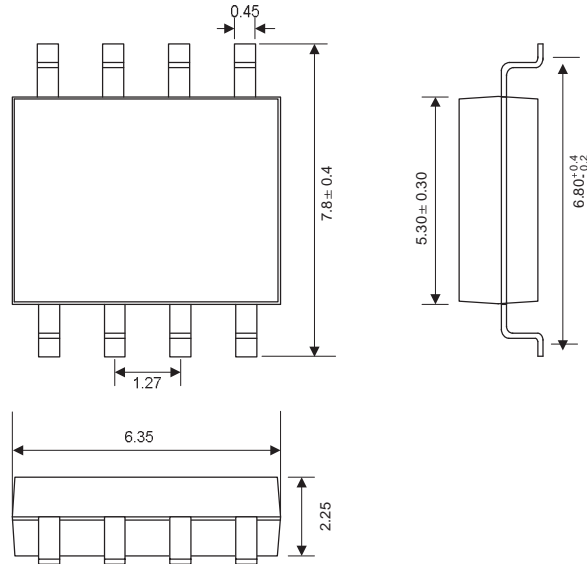
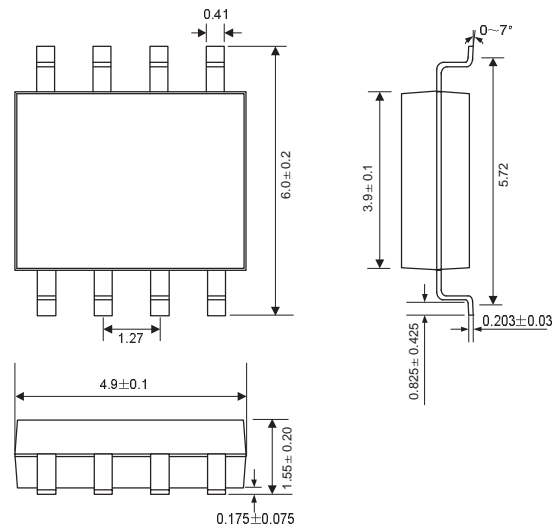
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Input Offset Voltage	VIO	Rs≤10kΩ	-	0.5	3	mV
Input Offset Current	IIO		-	5	200	nA
Input Bias Current	IIS		-	100	500	nA
Large Signal Voltage Gain	AV	RL≥2KΩ, VO=±10V	90	110	-	dB
Output Voltage Swing	VOM	RL≥2KΩ	±12	±13.5	-	V
Input Common Mode Voltage Range	VICM		±12	±13.5	-	V
Common Mode Rejection Ratio	CMR	Rs≤10kΩ	80	110	-	dB
Supply Voltage Rejection Ratio	SVR	Rs≤10kΩ	90	110	-	dB
Operating Current	ICC		-	6	9	mA
Slew Rate	SR	RL≥2KΩ	-	5	-	V/μs
Gain Bandwidth Product	GB	f=10kHz	-	15	-	MHz
Total Harmonic Distortion	THD	AV=20dB, VO=5V, RL=2kΩ, f=1kHz	-	0.0005	-	%
Input Noise Voltage	VNI	RIAA Rs=2.2kΩ, 30kHzLPF	-	0.8	-	μVrms

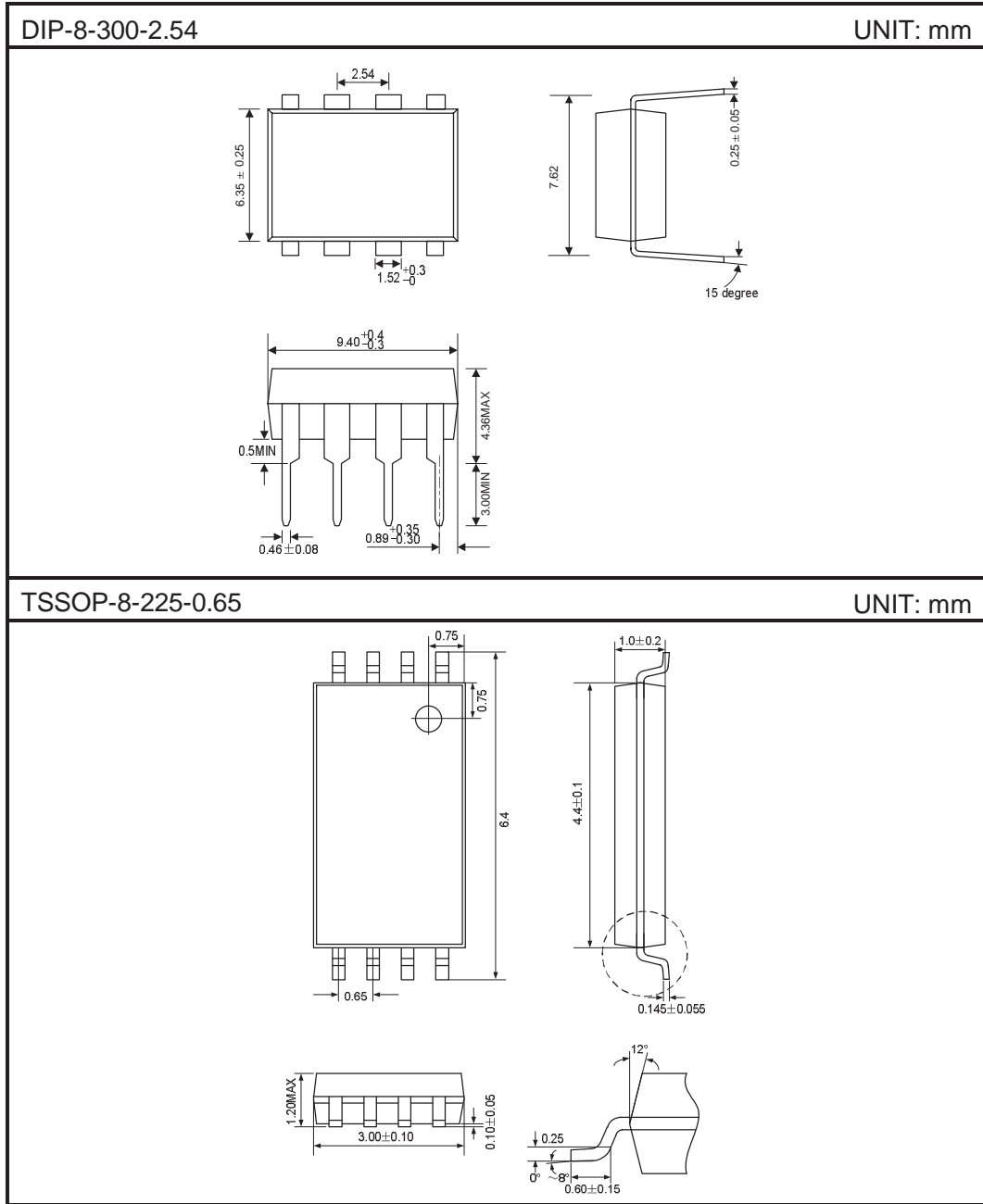
TYPICAL CHARACTERISTICS CURVES







**PACKAGE**
**SOP-8-300-1.27**
**UNIT: mm**

**SOP-8-225-1.27**
**UNIT: mm**


**PACKAGE**


单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)