

**LA4266****3 W Monaural Power Amplifier****Overview**

The LA4266 is a 3W power amplifier intended for television applications.

This IC has a series of pin compatible monaural and 2-channel power amplifiers, thus allows the end product to use a common circuit board.

**Features**

- Television audio output.
- Pin compatible with the LA4267 (5 W)/4268 (10 W) and the LA4276 (3 W × 2)/4277 (5 W × 2)/4278 (10 W × 2).
- Package: SIP-10HD (2.54 mm pitch, straight pins).
- Thermal protection circuit and overvoltage protection circuit on chip.
- Output power: 3 W ( $V_{CC} = 16 \text{ V}/R_L = 8 \Omega$ ).

**Specifications**

**Maximum Ratings** at  $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC}$	$R_g = 0$	25	V
Maximum output current	$I_O$ peak		1.5	A
Allowable power dissipation	$P_d$ max	Infinite heat sink	15.0	W
Thermal resistance	$\theta_{j-c}$		3.0	$^\circ\text{C}/\text{W}$
Operating temperature	$T_{opr}$		-20 to +75	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

**Operating Conditions** at  $T_a = 25^\circ\text{C}$

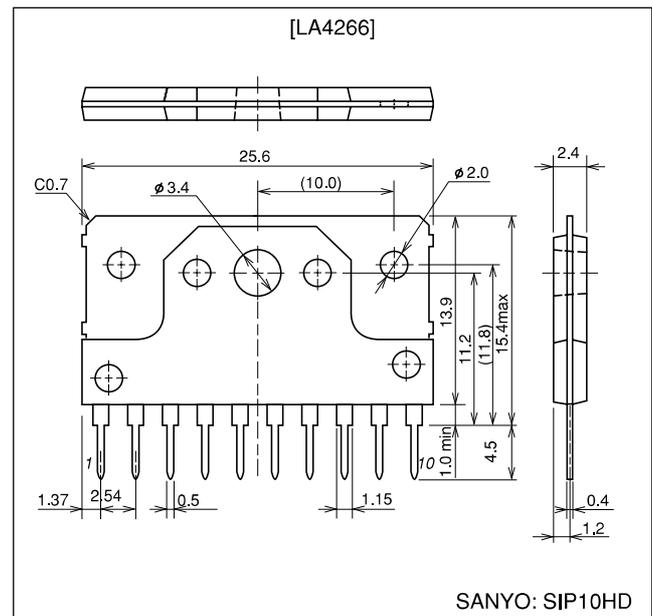
Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	$V_{CC}$		16	V
Load resistance	$R_L$		8	$\Omega$
Operating supply voltage range	$V_{CC\ op}$	Range does not exceed $P_d$	10 to 24	V

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**Package Dimensions**

unit: mm

**3248-SIP10HD**

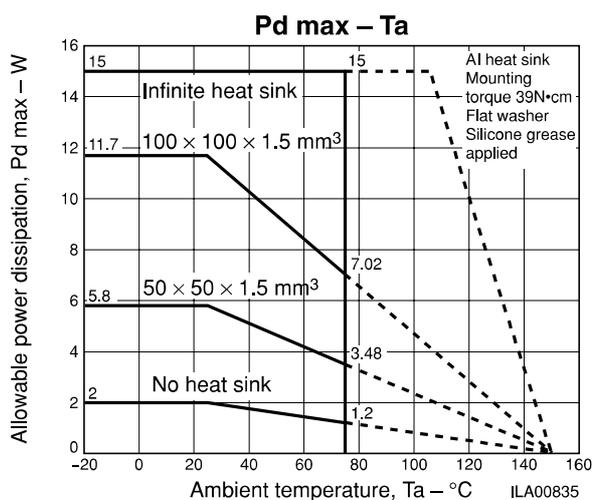
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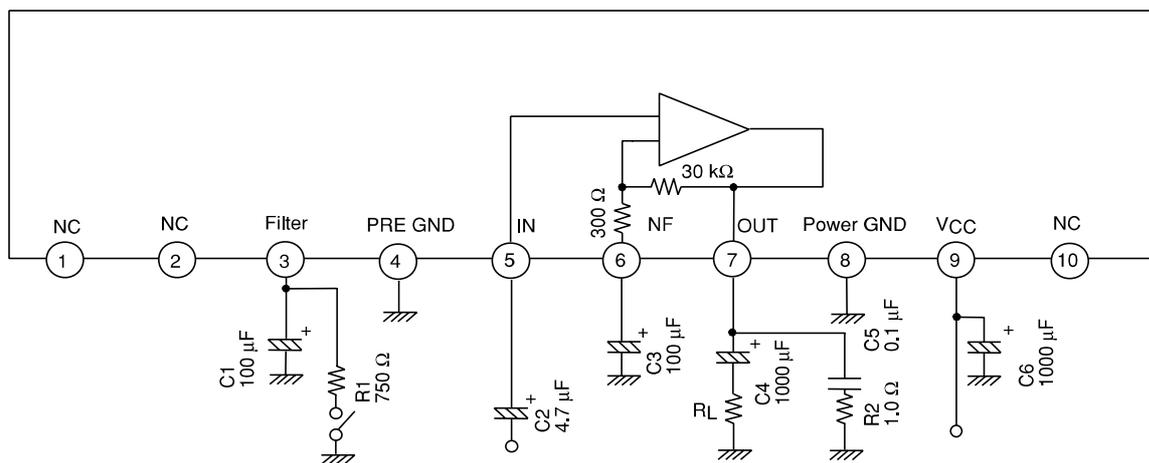
## LA4266

**Operating Characteristics** at  $T_a = 25^\circ\text{C}$ ,  $V_{CC} = 16\text{ V}$ ,  $R_L = 8\ \Omega$ ,  $f = 1\text{ kHz}$ ,  $R_g = 600\ \Omega$ , with specified board, in specified circuit

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Quiescent current	$I_{CCO}$	$R_g = 0$		25	50	mA
Voltage gain	VG	$V_O = 0\text{ dBm}$	38	40	42	dB
Total harmonic distortion	THD	$P_O = 0.5\text{ W}$		0.1	0.8	%
Output noise voltage	$V_{NO}$	$R_g = 10\text{ k}\Omega$ , BPF = 20 Hz to 20 kHz		0.25	1.0	mV
Output power	$P_O$	THD = 10 %	2.5	3.0		W
Ripple rejection	SVRR	$R_g = 0$ , $f_r = 100\text{ Hz}$ , $V_r = 0.5\text{ Vrms}$	45	55		dB



### Pin Assignment and Equivalent Circuit Diagram



\* For Muting, add a resistor between pin 3 and GND. 750  $\Omega$  for the LA4266/67/68, 200  $\Omega$  for the LA4276/77.