

Abaixo temos uma tabela com as características principais dos tipos de LM386

Chip Nome	Min Tensão	Max Tensão	Energia mínima de saída	Potência
LM386L	4 Volts	12 Volts	250 mW	700 mW
LM386N-1	4 Volts	12 Volts	250 mW	325 mW
LM386N-3	4 Volts	12 Volts	500 mW	700 mW
LM386N-4	5 Volts	18 Volts	700 mW	1.000 mW

ELECTRICAL CHARACTERISTICS LM386L

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Supply Voltage	V _{SS}		4		12	V
Quiescent Current	I _Q	V _{SS} =6V, V _{IN} =0		4	8	mA
Output Power	P _{OUT}	V _{SS} =6V, R _L =8Ω, THD=10%	250	325		mW
		V _{SS} =9V, R _L =8Ω, THD=10%	500	700		
Voltage Gain	G _V	V _{SS} =6V, f=1kHz		26		dB
		10μF from pin 1 to pin 8		46		dB
Bandwidth	BW	V _{SS} =6V, Pin1 and pin 8 open		300		kHz
Total Harmonic Distortion	THD	P _{OUT} =125mW, V _S =6V, f=1kHz R _L =8Ω pin1 and pin 8 open		0.2		%
Rejection Ratio	RR	V _{SS} =6V, f=1kHz, C _{BYPASS} =10μF pin1and pin 8 open, Referred to output		50		dB
Input Resistance	R _{IN}			50		kΩ
Input Bias Current	I _{BIAS}	V _{SS} =6V Pin2 and pin 3 open		250		nA

Electrical Characteristics

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
V _S Operating Supply Voltage	LM386N-1, -3, LM386M-1, LM386MM-1	4		12	V
	LM386N-4	5		18	
I _Q Quiescent Current	V _S = 6 V, V _{IN} = 0		4	8	mA
P _{OUT} Output Power	V _S = 6 V, R _L = 8 Ω, THD = 10% (LM386N-1, LM386M-1, LM386MM-1)	250	325		mW
	V _S = 9 V, R _L = 8 Ω, THD = 10% (LM386N-3)	500	700		
	V _S = 16 V, R _L = 32 Ω, THD = 10% (LM386N-4)	700	100		
A _V Voltage Gain	V _S = 6 V, f = 1 kHz		26		dB
	10 μF from Pin 1 to 8		46		
BW Bandwidth	V _S = 6 V, Pins 1 and 8 Open		300		kHz
THD Total Harmonic Distortion	V _S = 6 V, R _L = 8 Ω, P _{OUT} = 125 mW f = 1 kHz, Pins 1 and 8 Open		0.2%		
PSRR Power Supply Rejection Ratio	V _S = 6 V, f = 1 kHz, C _{BYPASS} = 10 μF Pins 1 and 8 Open, Referred to Output		50		dB
R _{IN} Input Resistance			50		kΩ
I _{BIAS} Input Bias Current	V _S = 6 V, Pins 2 and 3 Open		250		nA

[Datasheet LM386L](#)

[Datasheet LM386N](#)

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