

THERMAL DATA

Symbol	Description	Value	Unit
$R_{th\ j-case}$	Thermal Resistance Junction-case	Max	1.5
			°C/W

ELECTRICAL CHARACTERISTICS (Refer to the Test Circuit $V_S = \pm 35V$, $R_L = 8\Omega$, $G_V = 30dB$; $R_g = 50\Omega$; $T_{amb} = 25^\circ C$, $f = 1\text{ kHz}$; unless otherwise specified.

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_S	Supply Range		± 10		± 40	V
I_q	Quiescent Current		20	30	65	mA
I_b	Input Bias Current				500	nA
V_{OS}	Input Offset Voltage				± 10	mV
I_{OS}	Input Offset Current				± 100	nA
P_O	RMS Continuous Output Power	$d = 0.5\%$: $V_S = \pm 35V$, $R_L = 8\Omega$ $V_S = \pm 31V$, $R_L = 6\Omega$ $V_S = \pm 27V$, $R_L = 4\Omega$	60 60 60	70 70 70		W W W
	Music Power (RMS) IEC268.3 RULES - $\Delta t = 1s$ (*)	$d = 10\%$ $R_L = 8\Omega$; $V_S = \pm 38V$ $R_L = 6\Omega$; $V_S = \pm 33V$ $R_L = 4\Omega$; $V_S = \pm 29V$ (***)		100 100 100		W W W
d	Total Harmonic Distortion (**)	$P_O = 5W$; $f = 1\text{ kHz}$ $P_O = 0.1$ to $50W$; $f = 20\text{ Hz}$ to 20 kHz		0.005	0.1	% %
		$V_S = \pm 27V$, $R_L = 4\Omega$: $P_O = 5W$; $f = 1\text{ kHz}$ $P_O = 0.1$ to $50W$; $f = 20\text{ Hz}$ to 20 kHz		0.01	0.1	% %
SR	Slew Rate		7	10		V/ μs
G_V	Open Loop Voltage Gain			80		dB
G_V	Closed Loop Voltage Gain		24	30	40	dB
e_N	Total Input Noise	A = curve $f = 20\text{ Hz}$ to 20 kHz		1 2	5	μV μV
f_L, f_H	Frequency Response (-3dB)	$P_O = 1W$	20Hz to 20kHz			
R_i	Input Resistance		100			k Ω
SVR	Supply Voltage Rejection	$f = 100\text{ Hz}$; $V_{ripple} = 0.5V_{rms}$	60	75		dB
T_S	Thermal Shutdown			145		°C
STAND-BY FUNCTION (Ref: $-V_S$ or GND)						
$V_{ST\ on}$	Stand-by on Threshold				1.5	V
$V_{ST\ off}$	Stand-by off Threshold		3.5			V
ATT_{st-by}	Stand-by Attenuation		70	90		dB
$I_{q\ st-by}$	Quiescent Current @ Stand-by			1	3	mA
MUTE FUNCTION (Ref: $-V_S$ or GND)						
V_{Mon}	Mute on Threshold				1.5	V
V_{Moff}	Mute off Threshold		3.5			V
ATT_{mute}	Mute Attenuation		60	80		dB

Note (*):**MUSIC POWER CONCEPT**

MUSIC POWER is the maximal power which the amplifier is capable of producing across the rated load resistance (regardless of non linearity) 1 sec after the application of a sinusoidal input signal of frequency 1KHz.

Note ():** Tested with optimized Application Board (see fig. 2)

Note (*):** Limited by the max. allowable current.