

μ PC1288V

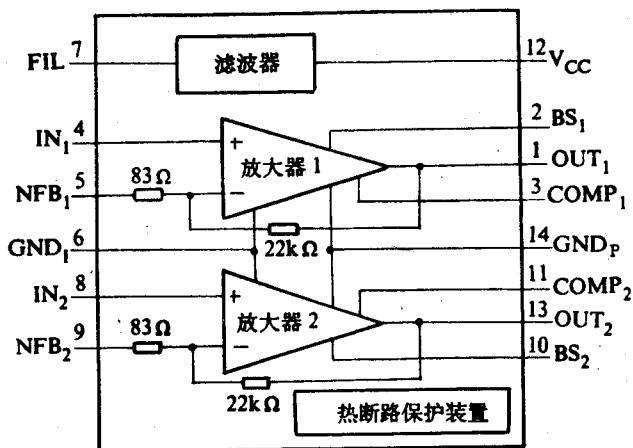
双音频功率放大器 (BTL 20W)

简要说明

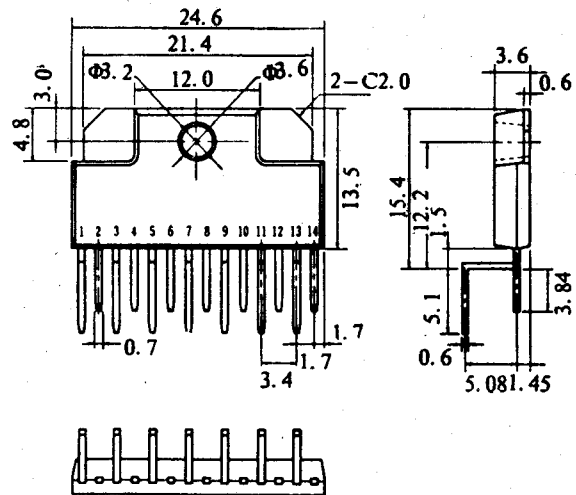
μ PC1288V 是 B 类双音频功率放大器, 是为音乐中心和收录机设计的。

该电路的主要特点是: 输出功率大, 工作电源电压范围宽 ($V_{CC} = 6 \sim 20V$), 静态电源电流小 ($V_{CC} = 15V$, $I_{CC0} = 23mA$), 噪声低, 电源电压抑制比高, 电源开关接通与断开时无冲击噪声, 软削波形式射频辐射小, 电路内含热断路保护电路, 热阻低 ($R_{th(j-c)} = 3^{\circ}C/W$), 外围元件数少, 安装简单, 封装与散热器间不需电绝缘。

电路框图 [$V_{CC(max)} = 25V$, $P_{D(max)} = 14W$]



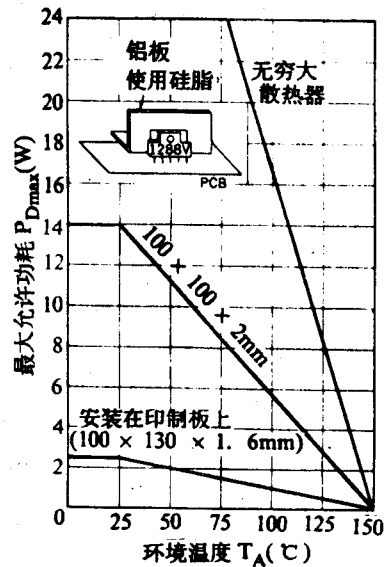
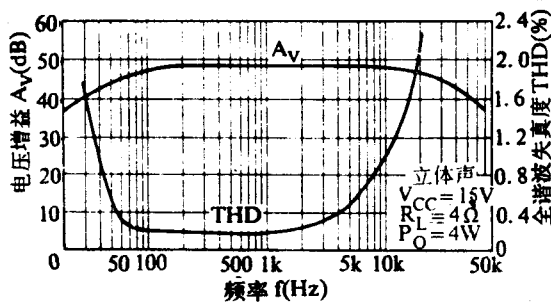
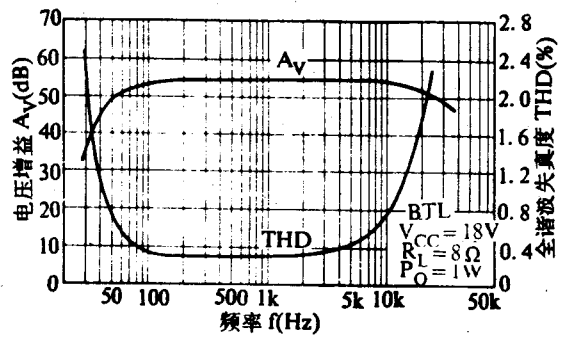
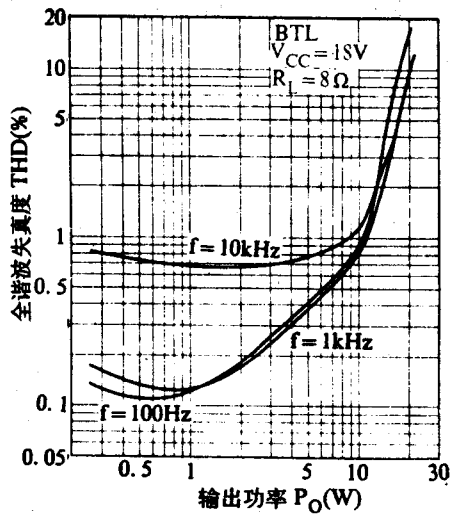
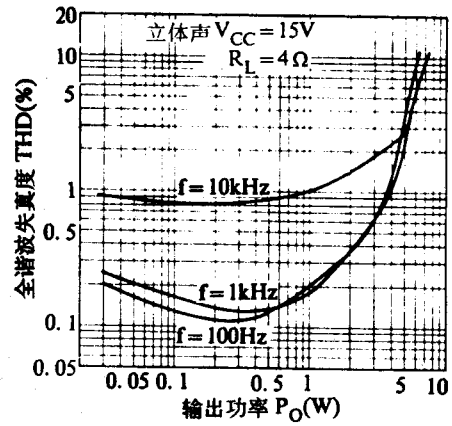
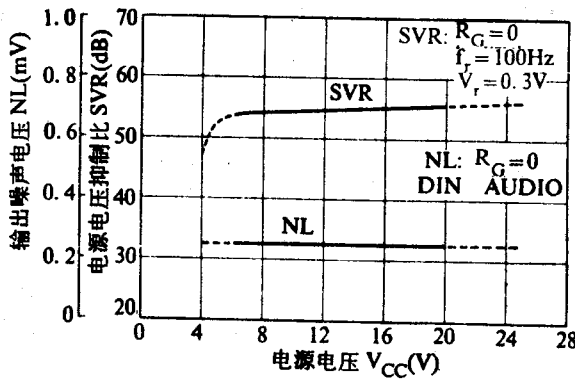
外形图



电参数 ($V_{CC} = 15V$, $R_L = 4\Omega$, $f = 1kHz$, 散热器 $100 \times 100 \times 2mm$ 铝板)

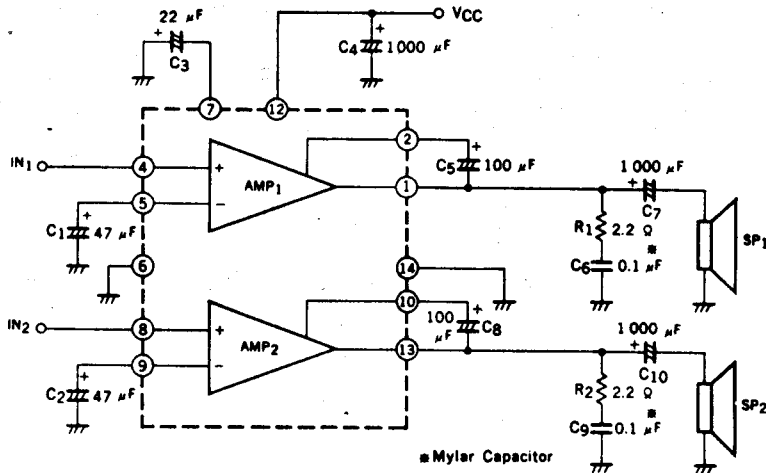
静态电源电流	I_{CC0}	无信号	$\leq 36mA$
电压增益	A_v		48dB
输出功率	P_0	THD = 10%, $V_{CC} = 12V$, $R_L = 4\Omega$	4.6W
		THD = 10%, $V_{CC} = 12V$, $R_L = 3\Omega$	5.7W
		THD = 10%, $V_{CC} = 15V$, $R_L = 4\Omega$	$\geq 6W$
		THD = 10%, $V_{CC} = 18V$, $R_L = 8\Omega$	5.5W
		THD = 10%, $V_{CC} = 18V$, $R_L = 8\Omega$, BTL	20W
全谐波失真度	THD	$P_0 = 1W$	$\leq 1\%$
输出噪声电压	NL	$R_g = 0$	$\leq 0.6mV$
串音	CT	$P_0 = 2W$, 其它声道, $R_g = 0$	$\geq 45dB$
声道平衡度	CB	$P_0 = 4W$	0dB
纹波抑制比	SVR	$R_g = 0$, $f = 100Hz$, $V = 0.3V$	$\geq 45dB$
输入阻抗	Z_i		$\geq 20k\Omega$

特点与性能

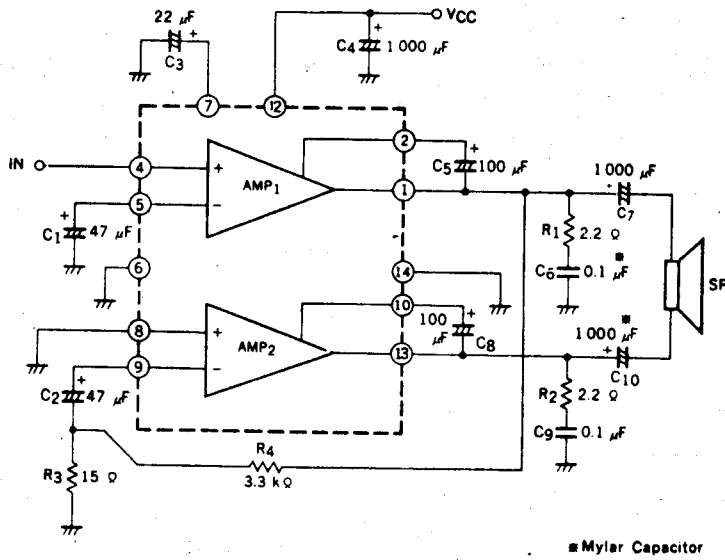


典型应用

1. 立体声典型应用电路



2. BTL 典型应用电路



静噪电路

