CD/TA7687AP/AF	FM/AM 中频放大器

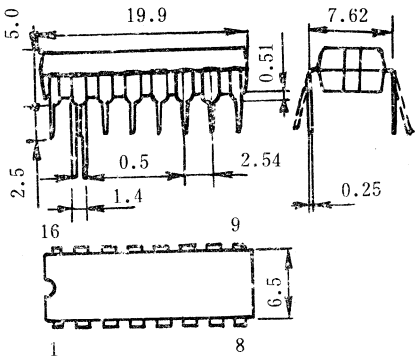
简要说明

CD/TA7687AP/AF 为调频/调幅中频放大电路。其内部含有调频中放、鉴频、调幅高放、本振、混频、中放、检波，以及调谐指示、自动增益控制、音频缓冲等电路。并有内设调频/调幅转换开关，共调频调幅的音频采用公共输出。该电路啸叫性能好，过载失真小，电源电流小，工作电源电压范围宽。

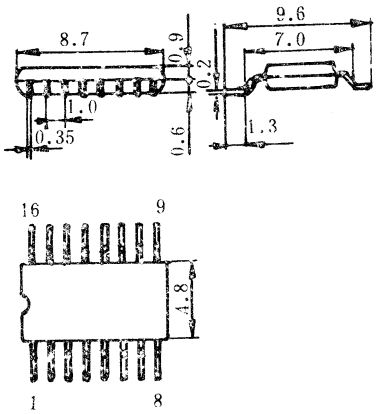
CD/TA7687AP/AF 采用 16 引线塑料双列直插和表面安装的弯引线双列直插两种封装。

外形图

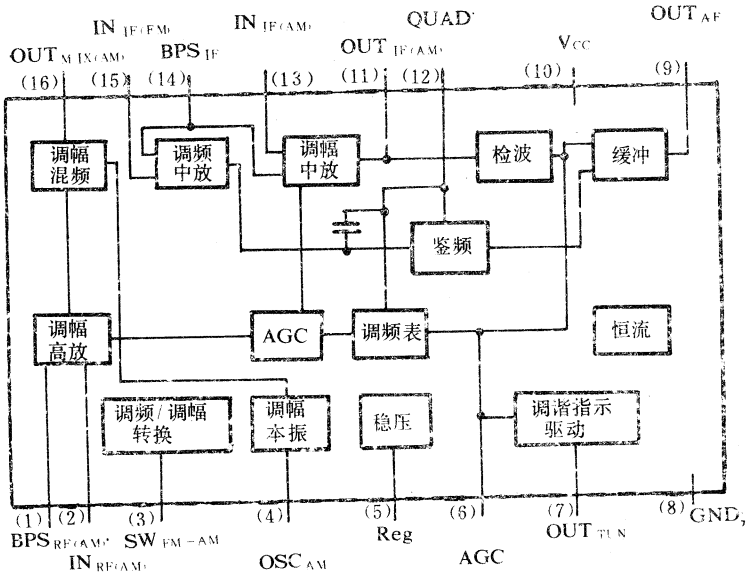
TA7687AP



TA7687AF



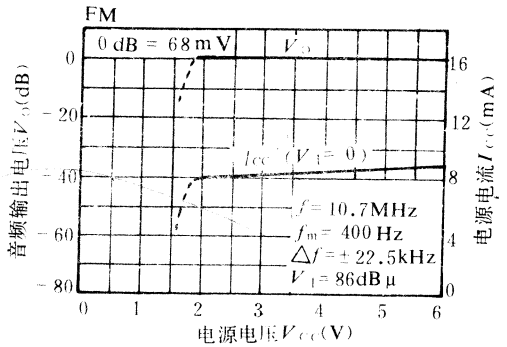
电路框图[$V_{CC(max)}$ = 6V, $P_{D(max)}$ = 750mW]

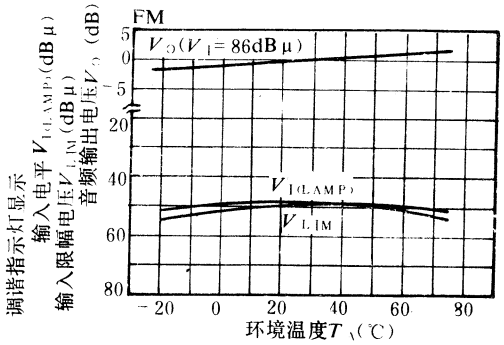


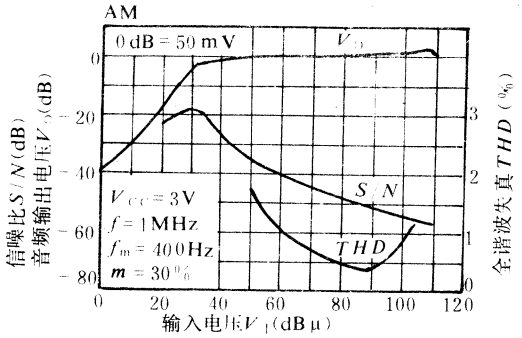
电参数($T_A=25℃, V_{CC}=3V$, FM: f = 10.7MHz, △f = ±22.5kHz, f_m = 1kHz, AM: f = 1MHz, m = 30%, f_m = 1kHz)

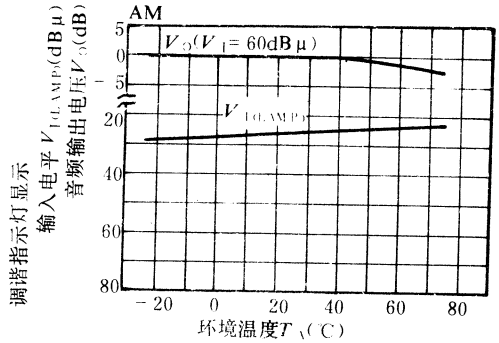
电源电流		I_{CC}	FM: V_I = 0	≤13mA	输出电阻		$R_{O9(FM/AM)}$	f = 1kHz	0.7/8.3kΩ
调频	输入限幅电压	V_{LIM}	-3dB 限幅	50dBμ	调幅	电压增益	A_V	V_I = 26dBμ	30mV
	音频输出电压	V_O	V_I = 86dBμ	≥50mV		音频输出电压	V_O	V_I = 60dBμ	50mV
	信噪比	S/N	V_I = 86dBμ	65dB		信噪比	S/N	V_I = 60dBμ	45dB
	全谐波失真度	THD	V_I = 86dBμ	0.1%		全谐波失真度	THD	V_I = 60dBμ	1.0%
	调幅抑制比	AMR	V_I = 86dBμ	45dB		本机振荡停振电压	V_{stop}		-1.2V

特点与性能









典型应用

调频/调幅中频放大器