

■ Absolute Maximum Ratings (Ta= 25°C)

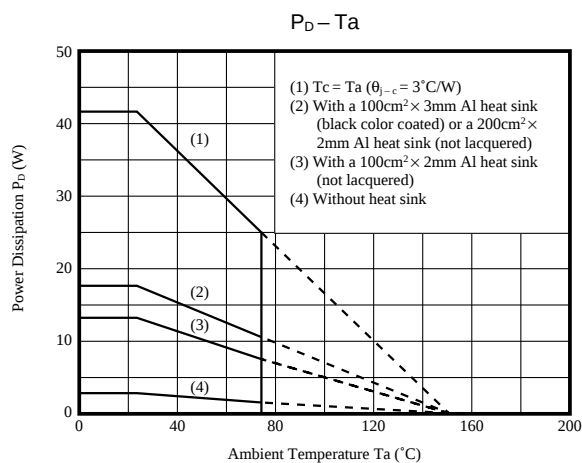
Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	24	V
Supply Current	I _{CC}	4.0	A
Power Dissipation	P _D	41.7 Note 1)	W
Peak Supply Voltage	V _{CC (surge)}	50 Note 2)	V
Operating Ambient Temperature	T _{opr}	− 30 ~ + 75	°C
Storage Temperature	T _{stg}	− 55 ~ + 150	°C

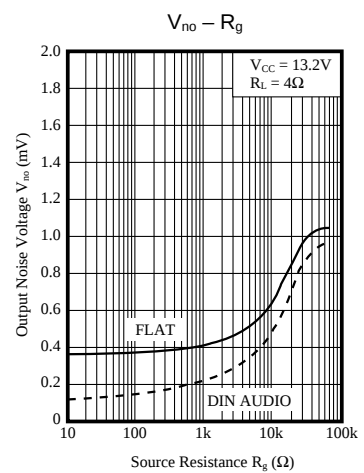
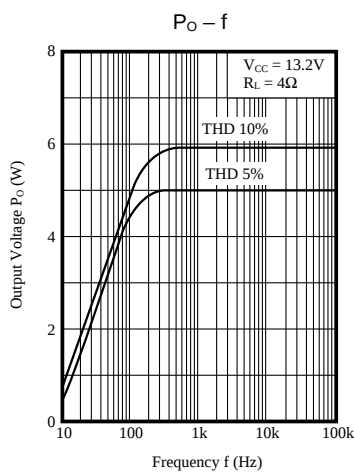
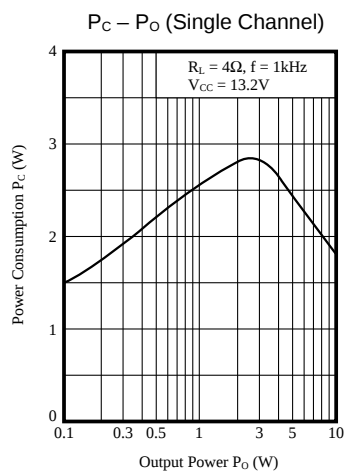
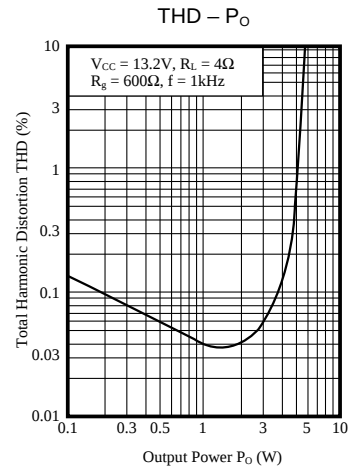
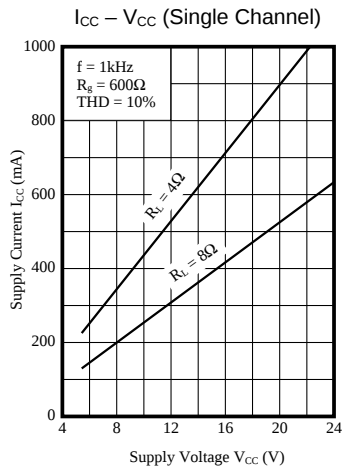
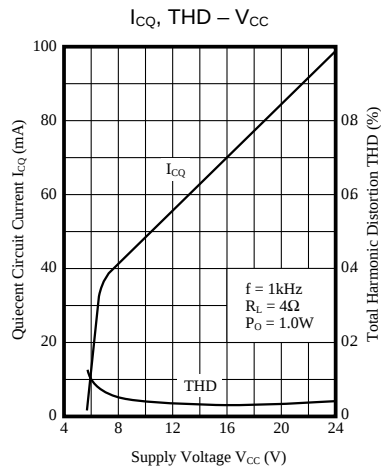
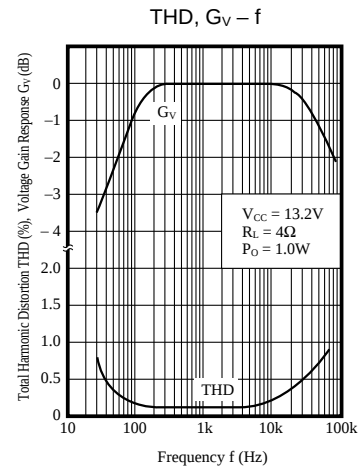
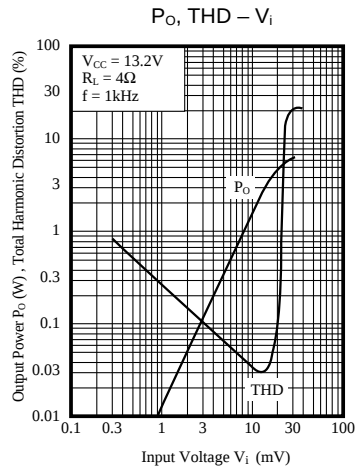
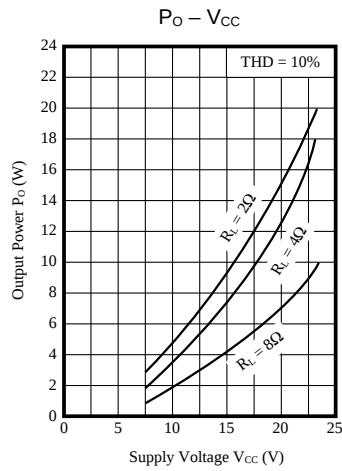
Note 1) $R_{\theta j-c} = 3^{\circ}\text{C/W}$

Note 2) Voltage applied time = 0.2s

■ Electrical Characteristics (V_{CC} = 13.2V, f = 1kHz, R_L = 4Ω, Ta= 25°C)

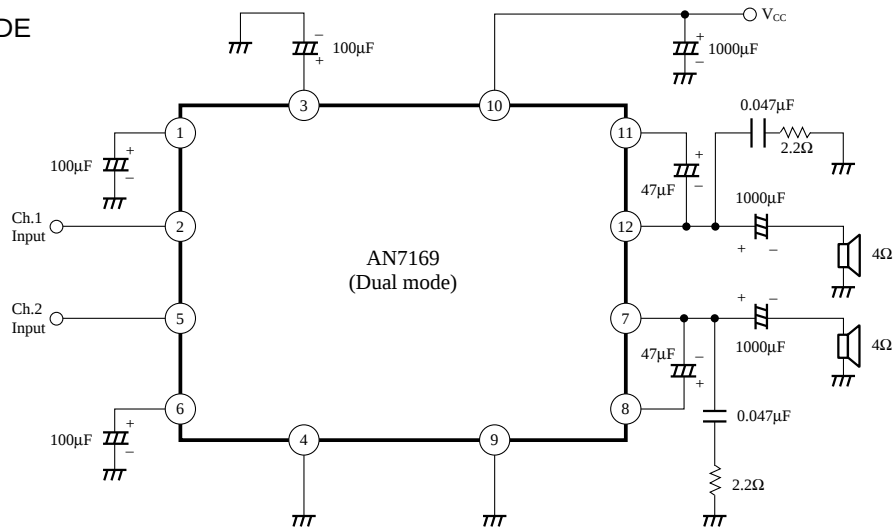
Parameter	Symbol	Condition	min.	typ.	max.	Unit
Quiescent Circuit Current	I _{CQ}	V _i = 0mV	30	55	100	mA
Voltage Gain	G _V	P _O = 0.5W	45	47	49	dB
Total Harmonic Distortion	THD	P _O = 0.5W, f = 1kHz	—	0.06	0.5	%
		P _O = 0.5W, f = 100Hz	—	0.07	—	
		P _O = 0.5W, f = 10kHz	—	0.15	—	
Maximum Output	P _O	THD = 10%	5.0	5.7	—	W
		THD = 10%, R _L = 2Ω	—	8.9	—	
		THD = 10%, R _L = 8Ω	—	3.1	—	
Output Noise Voltage	V _{no}	R _g = 10kΩ, 1000pF, f = 15Hz ~ 30kHz, 12dB/OCT	—	0.5	1.5	mV
		R _g = 10kΩ, 1000pF, Without Filter	—	0.65	—	
Channel Balance	CB	P _O = 0.5W	—	0	1.0	dB
Channel Separation	CS	P _O = 0.5W	40	50	—	dB
Ripple Rejection Ratio	RR	P _O = 0.5W, V _{ripple} = 280mV _{rms} , f _{ripple} = 120Hz Sine wave	35	45	—	dB
Offset Voltage	V _{O (offset)}	V _i = 0mV	—	0	200	mV



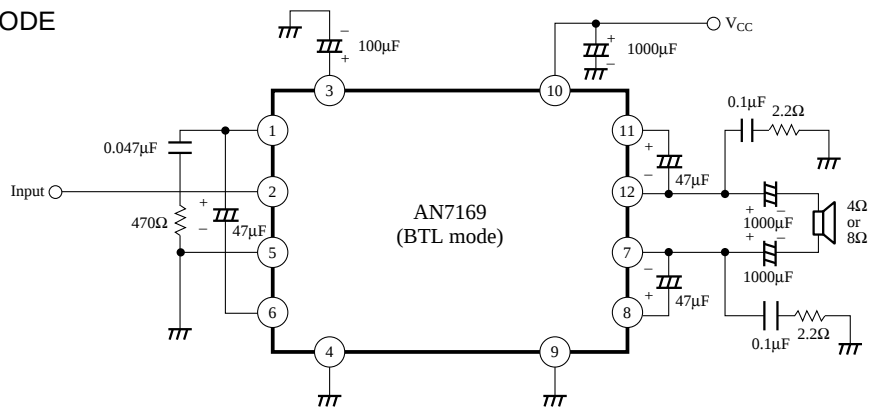


■ Application Circuits

• DUAL MODE



• BTL MODE



■ Printed Circuit Board Layout

