



### ■ Absolute Maximum Ratings (Ta= 25°C)

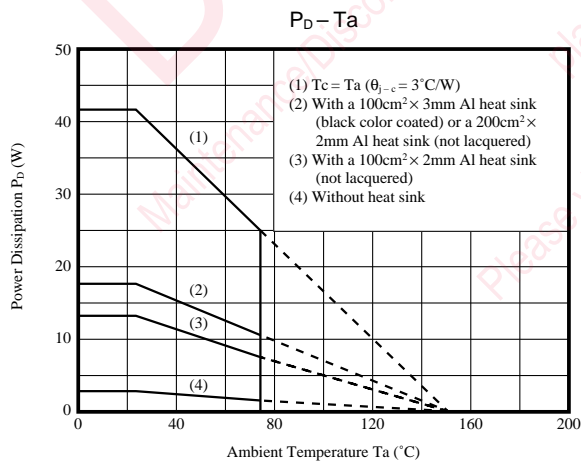
Parameter	Symbol	Rating	Unit
Supply Voltage	V <sub>CC</sub>	24	V
Supply Current	I <sub>CC</sub>	4.0	A
Power Dissipation	P <sub>D</sub>	41.7 <small>Note 1)</small>	W
Peak Supply Voltage	V <sub>CC(surge)</sub>	50 <small>Note 2)</small>	V
Operating Ambient Temperature	T <sub>opr</sub>	- 30 ~ + 75	°C
Storage Temperature	T <sub>stg</sub>	- 55 ~ + 150	°C

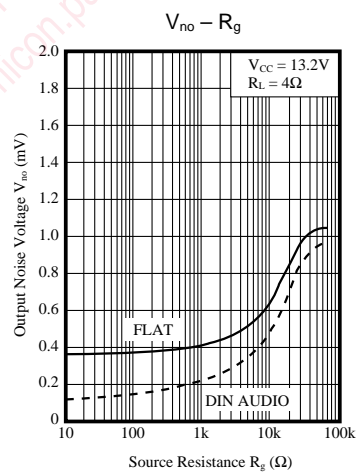
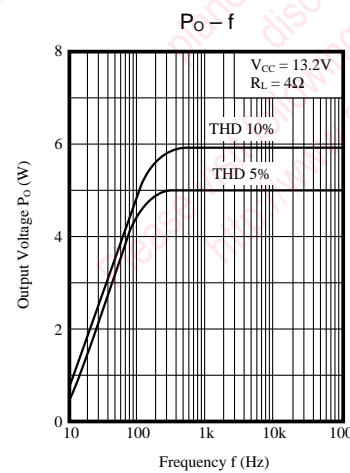
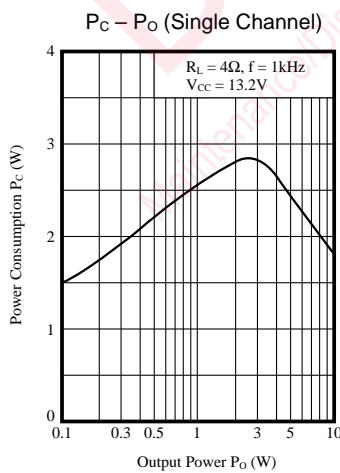
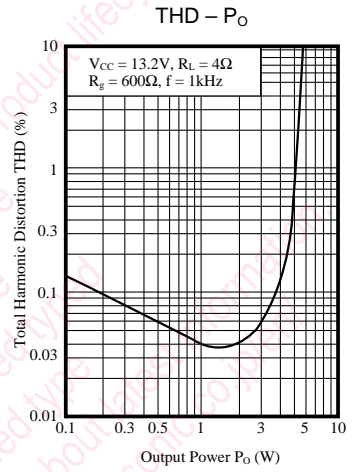
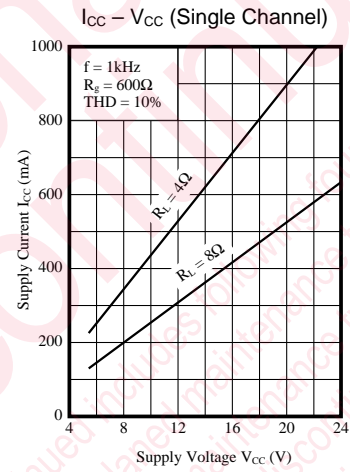
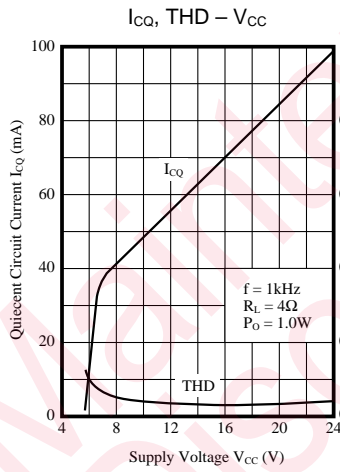
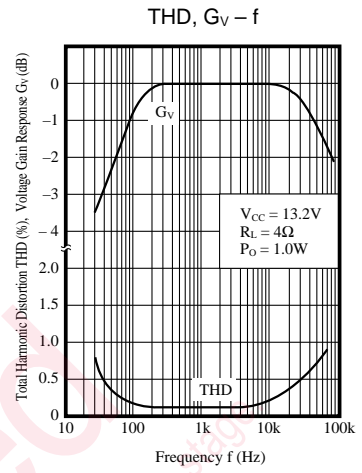
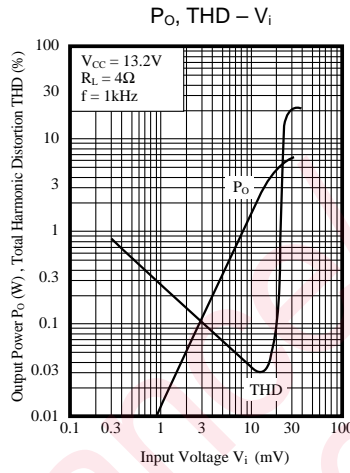
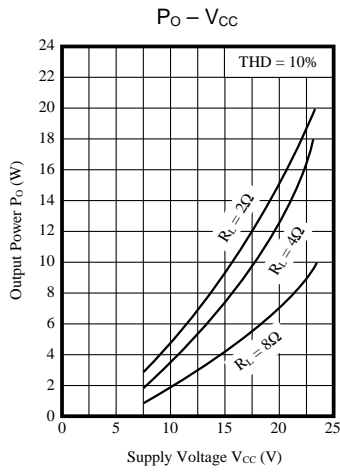
Note 1)  $R_{\theta j-c} = 3^{\circ}\text{C/W}$

Note 2) Voltage applied time = 0.2s

### ■ Electrical Characteristics (V<sub>CC</sub> = 13.2V, f = 1kHz, R<sub>L</sub> = 4Ω, Ta = 25°C)

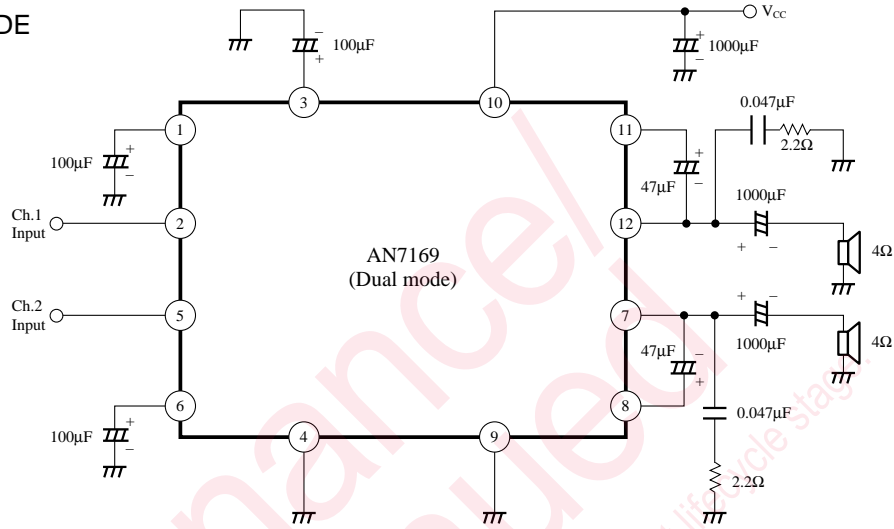
Parameter	Symbol	Condition	min.	typ.	max.	Unit
Quiescent Circuit Current	I <sub>CQ</sub>	V <sub>i</sub> = 0mV	30	55	100	mA
Voltage Gain	G <sub>V</sub>	P <sub>O</sub> = 0.5W	45	47	49	dB
Total Harmonic Distortion	THD	P <sub>O</sub> = 0.5W, f = 1kHz	—	0.06	0.5	%
		P <sub>O</sub> = 0.5W, f = 100Hz	—	0.07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



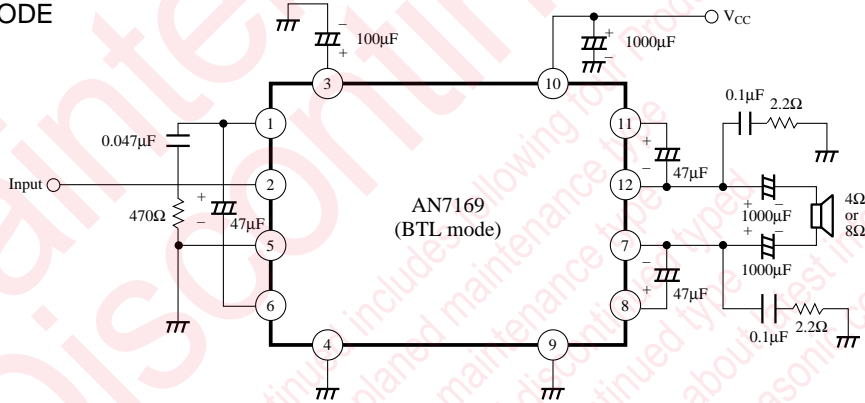


■ Application Circuits

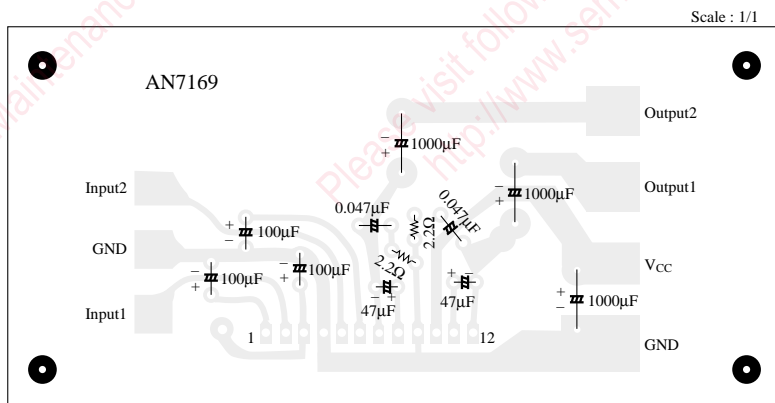
• DUAL MODE



• BTL MODE



■ Printed Circuit Board Layout



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