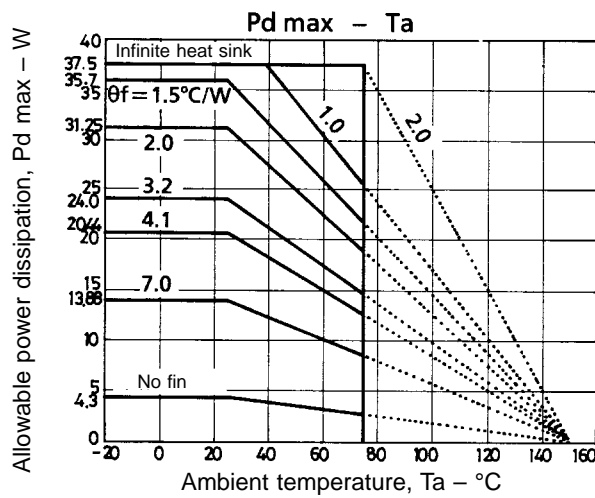


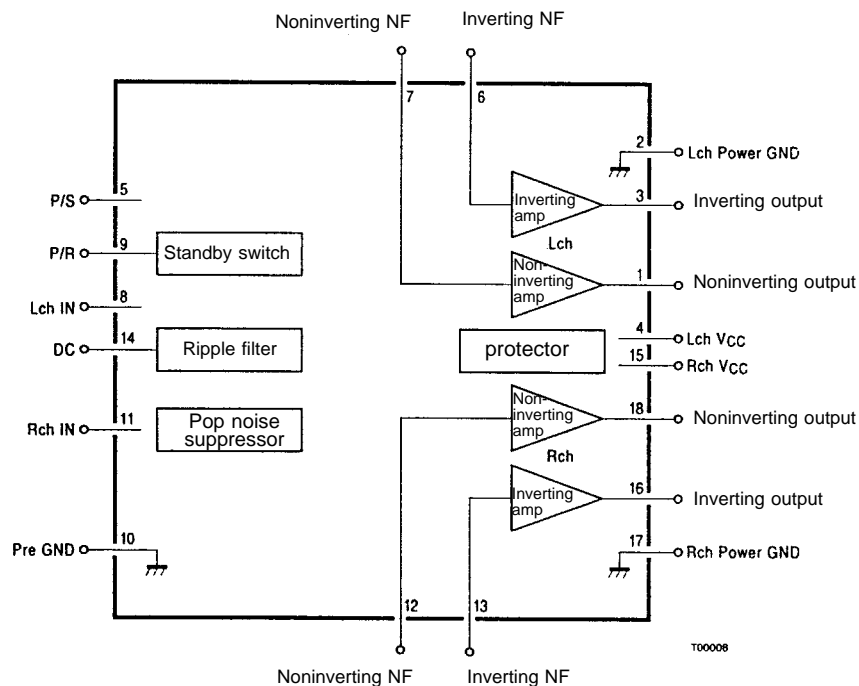
LA4700N

**Operating Characteristics at $T_a = 25^\circ\text{C}$, $V_{CC} = 13.2\text{ V}$, $R_L = 4\ \Omega$, $f = 1\text{ kHz}$, $R_g = 600\ \Omega$,
See specified Test Circuit**

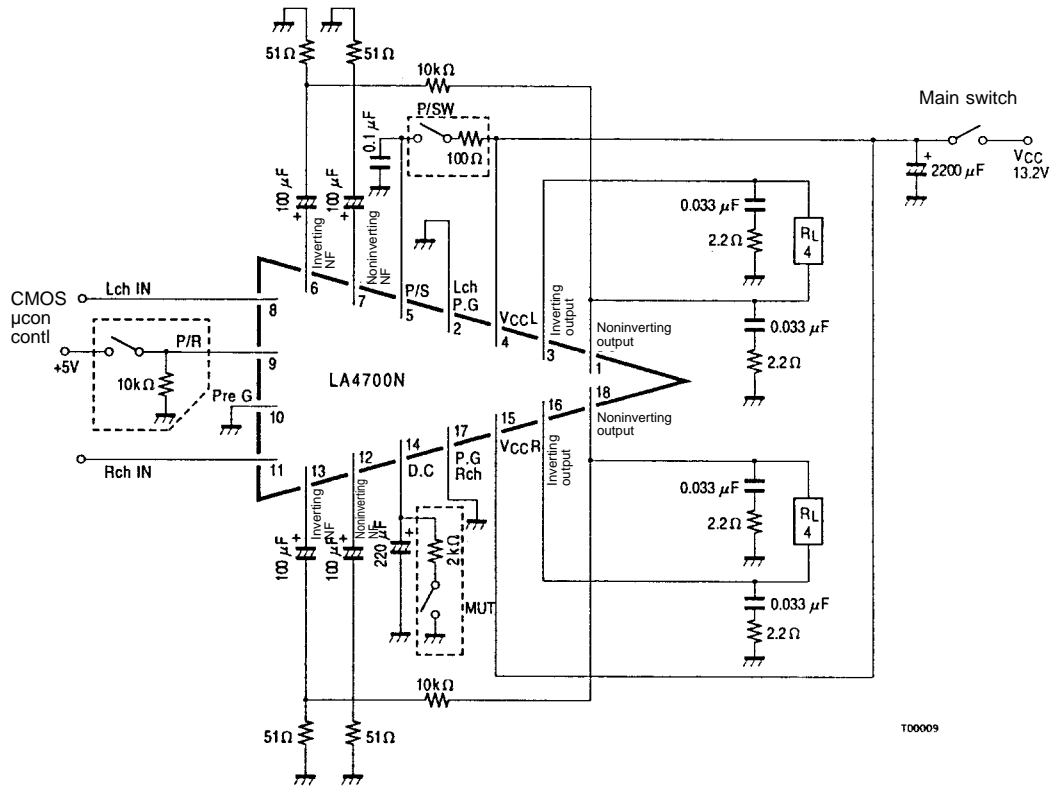
Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I_{CCO}		60	140	200	mA
Voltage gain	VG		48	50	52	dB
Voltage gain difference	ΔVG				2	dB
Total harmonic distortion	THD	$P_o = 1\text{ W}$		0.15	0.75	%
Output voltage	P_o	THD = 10%	10	12		W
Output noise voltage	V_{NO}	$R_g = 0$, B.P.F. = 20 Hz to 20 kHz		0.2	0.4	mV
Ripple rejection	SVRR	$V_r = 0\text{ dBm}$, $f_R = 100\text{ Hz}$, $R_g = 0$	40	55		dB
Channel separation	CHsep	$P_o = 1\text{ W}$, $R_g = 10\text{ k}\Omega$	50	60		dB
Standby current	1st			10	100	μA
Offset voltage	V_{off}		-300		300	mV



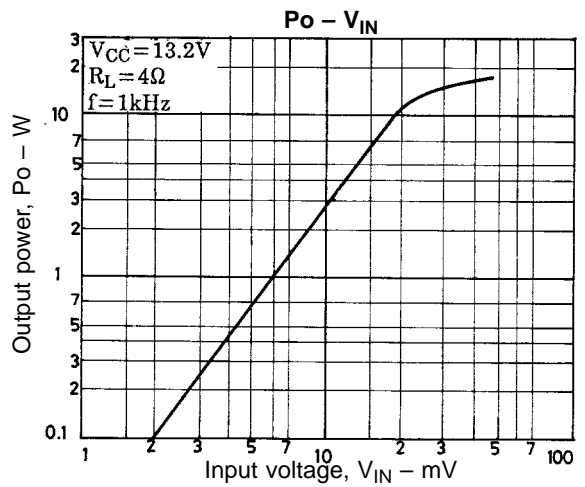
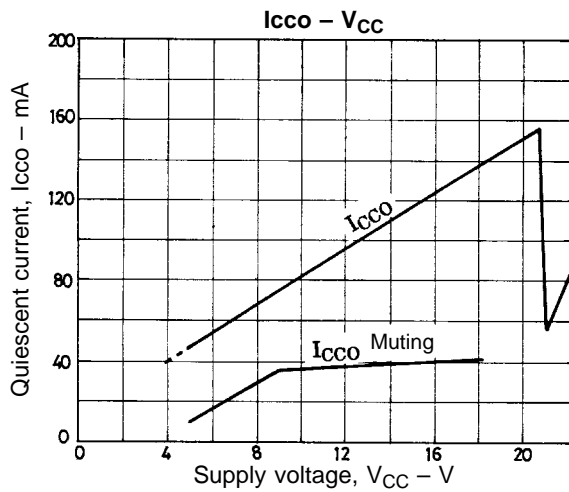
Equivalent Circuit Block Diagram



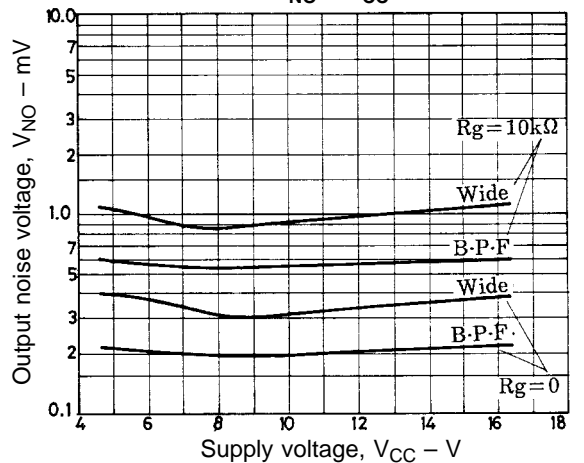
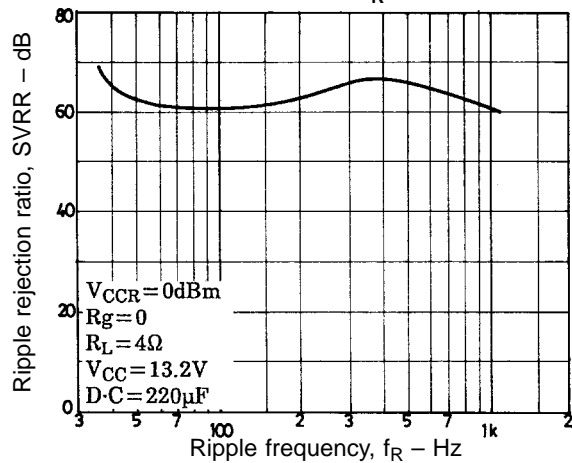
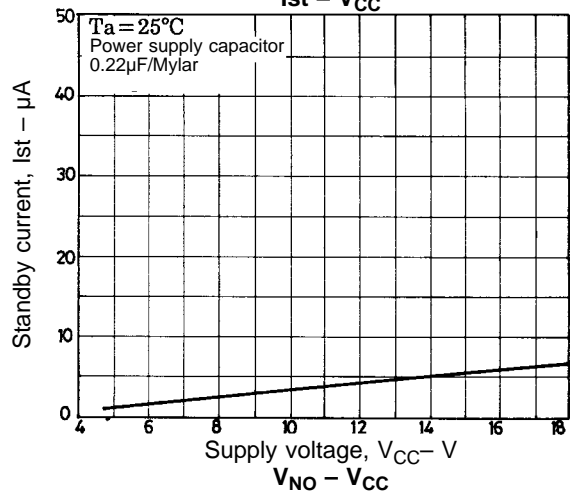
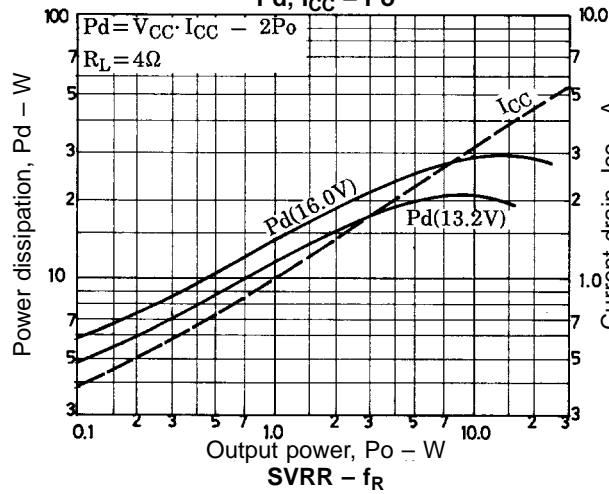
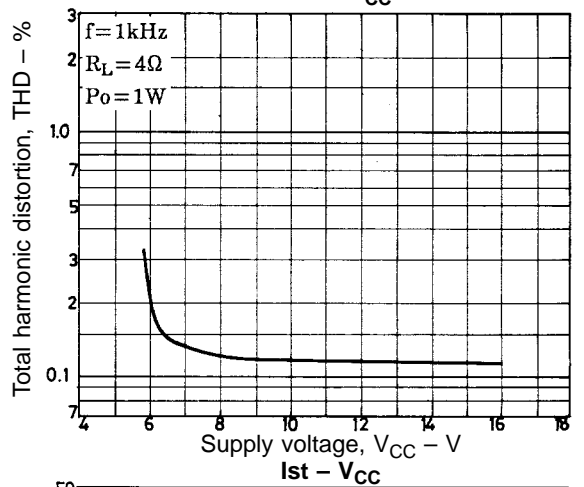
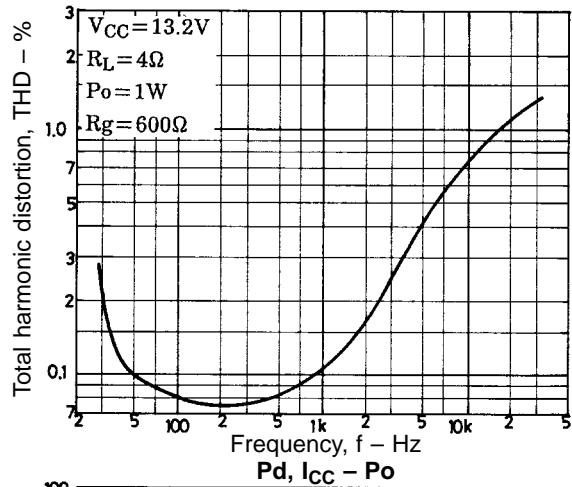
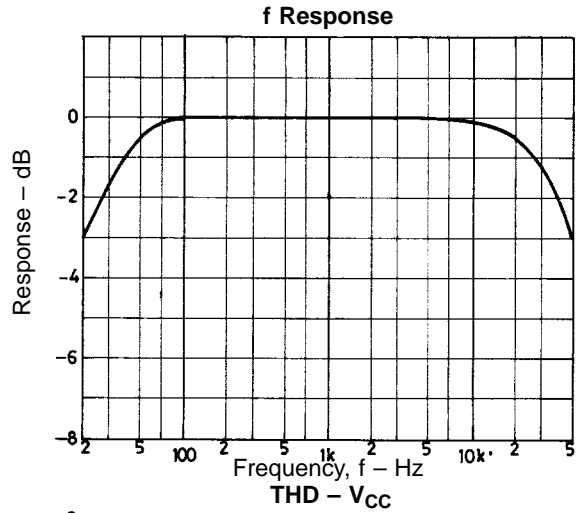
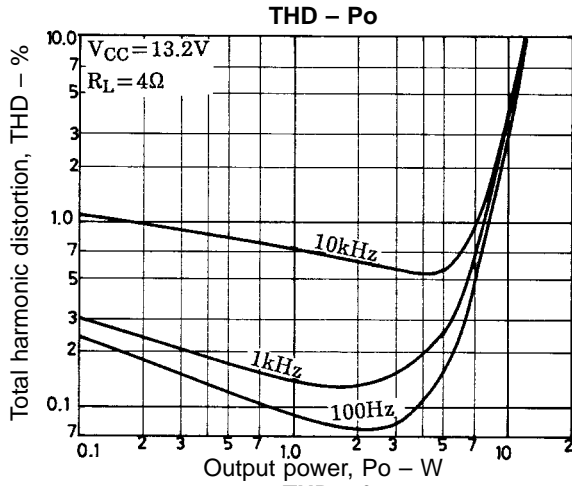
Sample Application Circuit

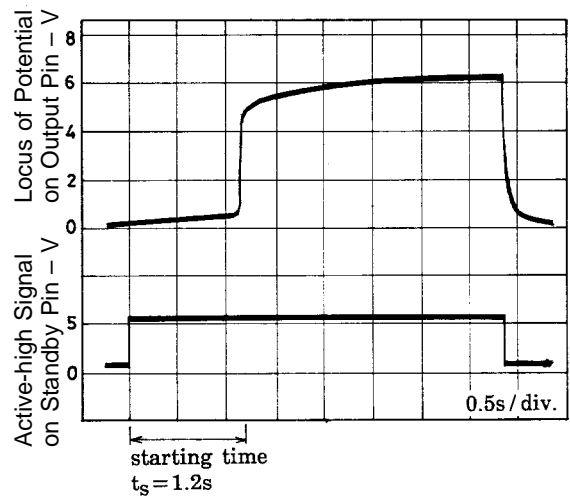
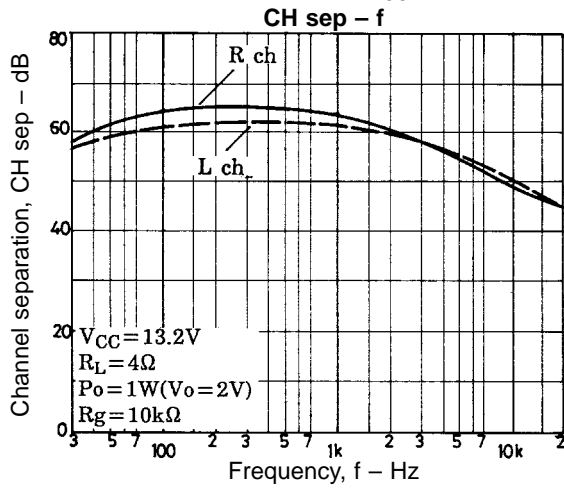
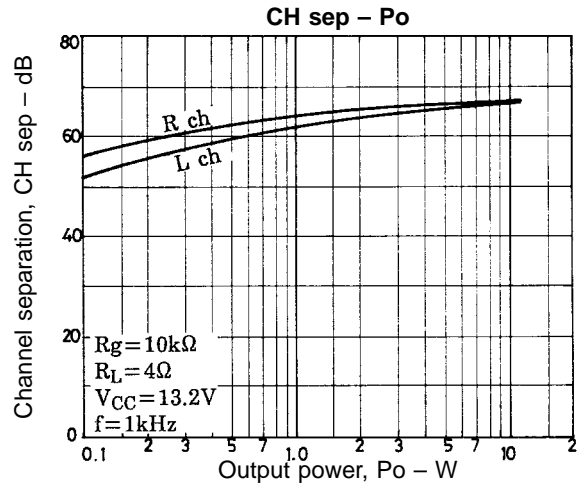
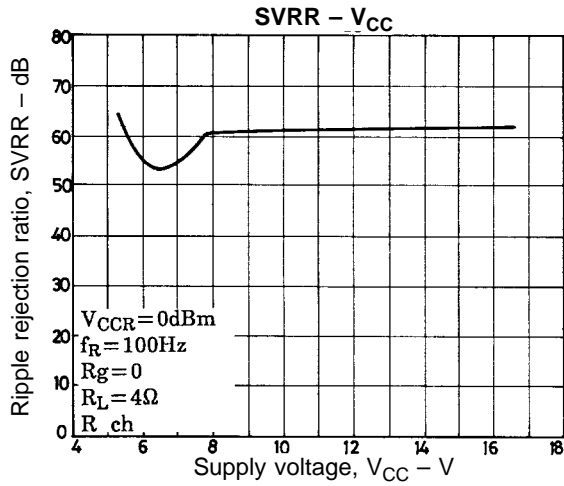


* Connect the portion bounded by a dotted line according to your intended applications. When the power relay is not used, connect pin ⑨ to GND. In this case, the power switch is used to turn ON/OFF the LA4700N or the main switch is used to turn ON/OFF the LA4700N.



LA4700N





To shorten t_s in the application herein, the filter capacitor (pin 14) value 220 μF is decreased. Filter capacitor value 100 μF gives t_s of 0.6 to 0.7 second.

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