

LOW VOLTAGE VIDEO AMPLIFIER WITH LPF

■GENERAL DESCRIPTION

The **NJM2562** is a Low Voltage Video Amplifier contained LPF circuit. Internal 75Ω driver is easy to connect TV monitor directly.

The **NJM2562** features low power and small package, and is suitable for low power design on downsizing of DSC and DVC.

■PACKAGE OUTLINE

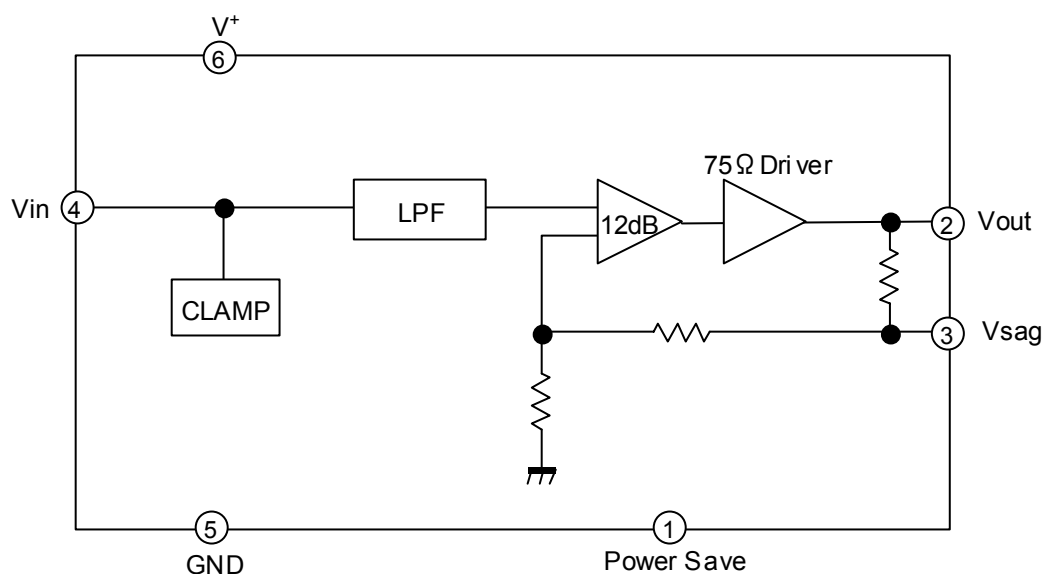
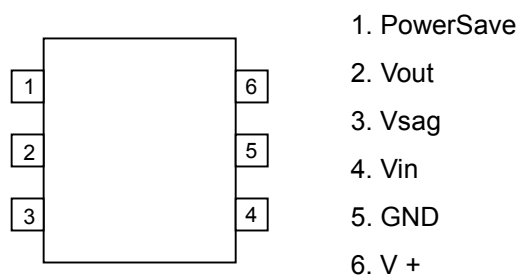


NJM2562F1

■FEATURES

- Operating Voltage 2.8 to 5.5V
- 12dB amplifier
- Internal LPF -32dB at 19MHz typ.
- Internal 75Ω Driver Circuit (2-system drive)
- Power Save Circuit
- Bipolar Technology
- Package Outline MTP6

■BLOCK DIAGRAM



NJM2562

■ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V^+	7.0	V
Power Dissipation	P_D	200	mW
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

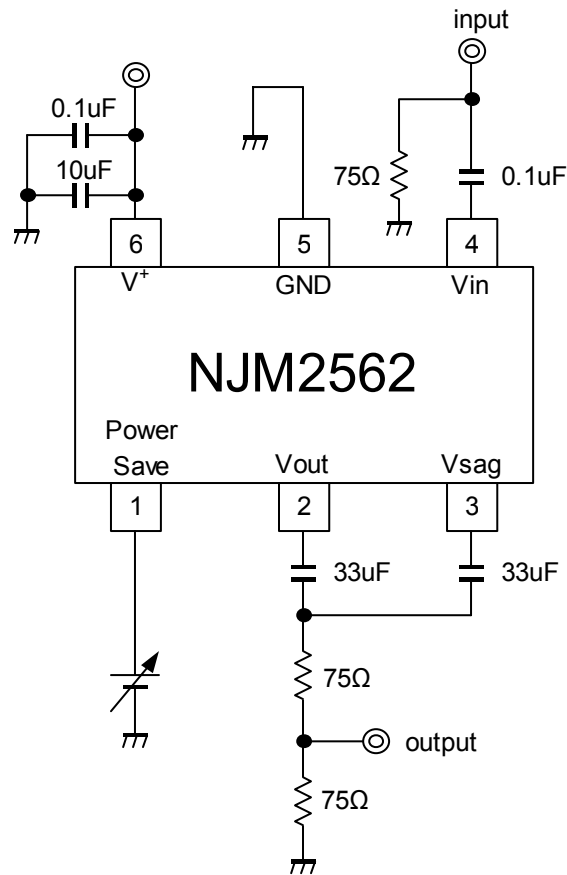
■ELECTRICAL CHARACTERISTICS ($V^+=3.0V, R_L=150\Omega, T_a=25^\circ C$)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Current	I_{CC}	No Signal	-	8.0	12.0	mA
Operating Current at Power Save	I_{save}	Power Save Mode	-	30	50	uA
Maximum Output Voltage Swing	Vomv	f=100kHz, THD=1%	2.2	2.5	-	Vp-p
Voltage Gain	Gv	Vin=100kHz, 0.5Vp-p, Input Sine Signal	12.0	12.4	12.8	dB
Low Pass Filter Characteristic	Gfy4.5M	Vin=4.5MHz/100kHz, 0.5Vp-p	-0.6	-0.1	0.4	dB
	Gfy19M	Vin=19MHz/100kHz, 0.5Vp-p	-	-32	-22	
Differential Gain	DG	Vin=0.5Vp-p, 10step Video Signal	-	0.5	-	%
Differential Phase	DP	Vin=0.5Vp-p, 10step Video Signal	-	0.5	-	deg
S/N Ratio	SNv	Vin=0.5Vp-p, $R_L=75\Omega$ 100% White Video Signal, 100KHz to 6MHz	-	+60	-	dB
2nd. Distortion	Hv	Vin=0.5Vp-p, 3.58MHz, Sine Signal, $R_L=75\Omega$	-	-50	-	dB
SW Change Voltage High Level	VthPH	Active	1.8	-	V^+	V
SW Change Voltage Low Level	VthPL	Non-active	0	-	0.3	

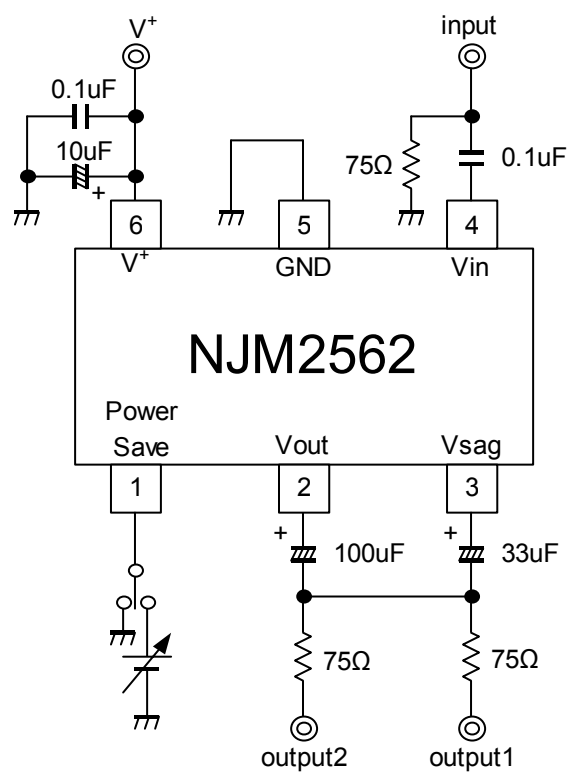
■CONTROL TERMINAL

PARAMETER	STATUS	NOTE
Power Save	H	Power Save: OFF
	L	Power Save: ON
	OPEN	Power Save: ON

■TEST CIRCUIT



■APPLICATION CIRCUIT (2-system drive)



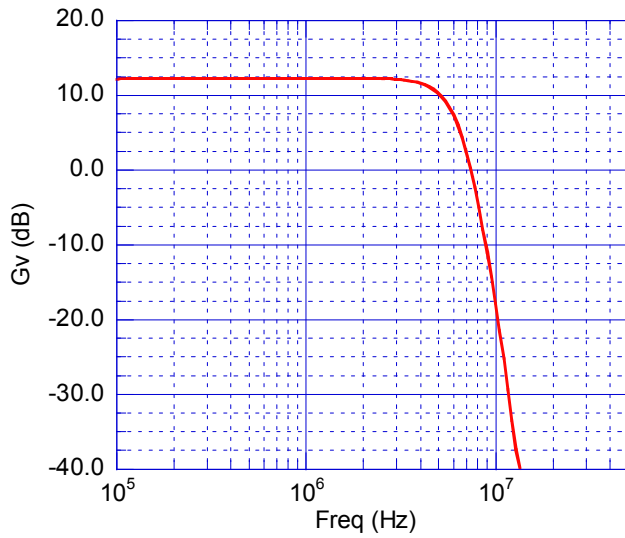
■ TERMINAL DESCRIPTION

No.	SYMBOL	VOLTAGE	EQUIVALENT CIRCUIT
1	Power Save	-	
2	Vout	0.33V	
3	Vsag	-	
4	Vin	1.10V	
5	GND	-	
6	V+	3V	

■TYPICAL CHARACTERISTICS

Voltage Gain vs. Frequency

V=PS=3.0V, Vin=0.5Vpp



[CAUTION]

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