DUAL EQUALIZER AMPLIFIER

—— YD3161

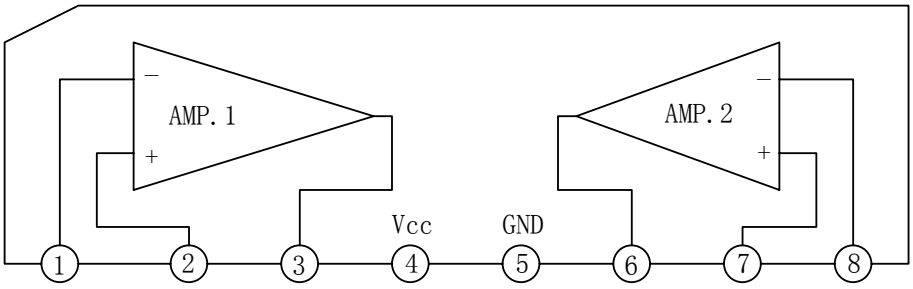
DESCRIPTION

YD3161 is 2-Channel Preamplifier For Car Stereo

FEATURES

• On-chip 2 preamplifiers.
• Good ripple rejection owing to on-chip voltage regulator.
• Minimum number of external parts required.
• Low noise.
• 8-pin SIP package facilitating easy mounting.

BLOCK DIAGRAM



OUTLINE FUNCTION

PIN	Name	Function	PIN	Name	Function
1	NF1	Feedback 1	5	GND	GND
2	IN1	Input 1	6	OUT2	Output 2
3	OUT1	Output 1	7	IN2	Input 2
4	Vcc	Vcc	8	NF2	Feedback 2

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ABSOLUTE MAXIMUM RATINGS (Tamb=25℃)

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V_{CC}	18	V
Power Dissipation	P_D	200	mW
Operating Temperature	Topr	-20～+75	℃
Storage Temperature	Tstg	-40～+125	℃

Recommended Operating Conditions (Tamb=25℃)

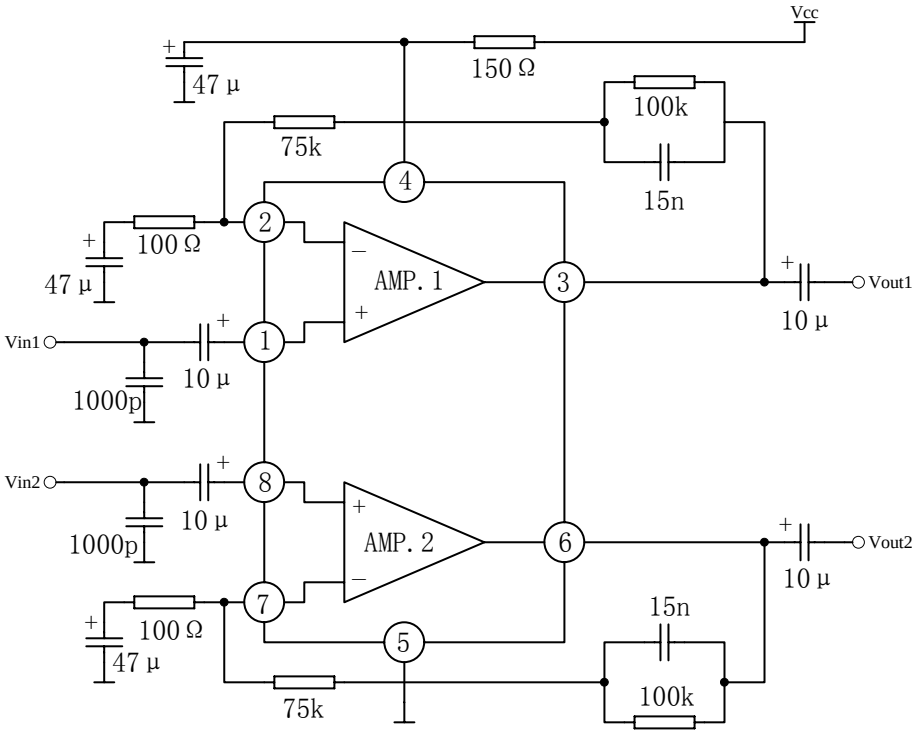
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V_{CC}	9	V
Load Resistance	R_L	10k	Ω

ELECTRICAL CHARACTERISTICS

(Tamb=25℃, Vcc=9V, f=1kHz, RL=10kΩ, Rg=600Ω,Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Quiescent Current	Iccq	Vi=0		6.5	8.0	mA
Open Loop Voltage Gain	Gvo	V_O=0.775V	70	78		dB
Closed Loop Voltage Gain	Gv	V_O=0.775V		35		dB
Output Voltage	Vo	THD=1%	1.0	1.3		V
Total Harmonic Distortion	THD	V_O=0.5V		0.05	0.30	%
Input Resistance	Zi		70	100		kΩ
Input Noise Voltage	V_{Ni}	Rg=2.2kΩ, BW=20Hz～20kHz		1.2	2.0	μV
Cross Talk	CT	Rg=2.2kΩ,	-50	-65		dB
Ripple Rejection	R.R			-40		dB

APPLICATION CIRCUIT



OUTLINE DRAWING

