DatasheetArchive.....

Request For Quotation

Order the parts you need from our real-time inventory database. Simply complete a request for quotation form with your part information and a sales representative will respond to you with price and availability.

Request For Quotation

Your free datasheet starts on the next page.

More datasheets and data books are available from our homepage: http://www.datasheetarchive.com

AN7310N

Dual Pre-Amplifier for Car Radio

Description

The AN7310N is a monolithic integrated circuit designed for dual pre-amplifier suitable for car stereo, portable stereo and portable cassette tape recorder. Stabilized characteristics can be obtained for high gain, low distortion, low noise and high output voltage, etc owing to the fact that 2 channels are built-in one chip.

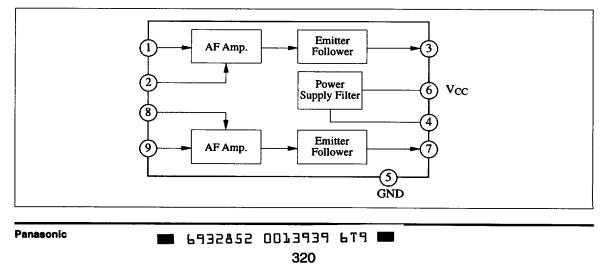
Features

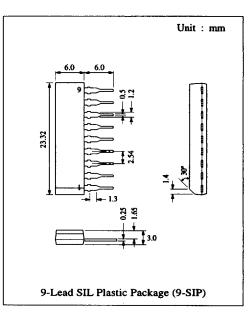
- High gain, low distortion and low noise
- Power ON/OFF noise suppression
- Easy for designing due to single-in-line package
- Good channel separation

Pin

Pin No.	Pin Name
1	Input Ch. 1
2	N.F.B. Ch. 1
3	Output Ch. 1
4	Ripple Filter
5	GND
6	V _{CC}
7	Output Ch. 2
8	N.F.B. Ch. 2
9	Input Ch. 2







Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit V mA	
Supply Voltage	v _{cc}	16		
Supply Current	I _{CC}	15		
Power Dissipation (Ta=75°C)	PD	240	mW	
Operating Ambient Temperature	Торг	-30 ~ +75	°C	
Storage Temperature	Tstg	-55 ~ +125	°C	

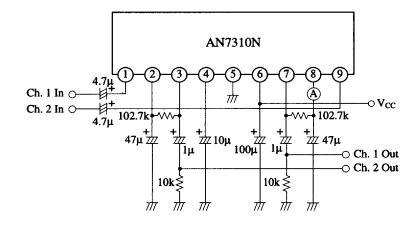
Operating Supply Voltage Range: $V_{CC} = 4.0V \sim 16.0V$

Electrical Characteristics (V_{CC}=8V, f=1kHz, R_L=10kΩ Ta=25°C)

Item	Symbol	Test Circuit	Condition	min.	typ.	max.	Unit
Quiescent Current	lcq	÷1	$V_{in} = 0mV$		4	8	mA
Open Loop Voltage Gain	Gvo	1	$V_{in} = 20mV$	80	90		dB
Output Voltage	Vo	2	THD = 1%	1.2	2.2		v
Total Harmonic Distortion	THD	2	$V_0 = 0.3V$		0.03	0.1	%
Noise Voltage Referred to Input	V _{ni} *	2	$R_g = 2.2k\Omega$		1.2	2	μV
Input Impedance	Zin				100		kΩ
Crosstalk	СТ		$R_g = 2.2k\Omega$, $f = 10kHz$		-74		dB

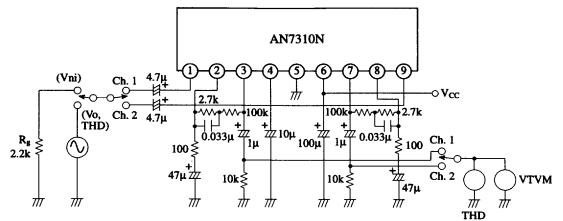
* Measure with 15Hz ~ 30kHz (-3dB) filter

Test Circuit 1 (Itot, GVO)



■ 6932852 0013940 310 ■ 321 Panasonic

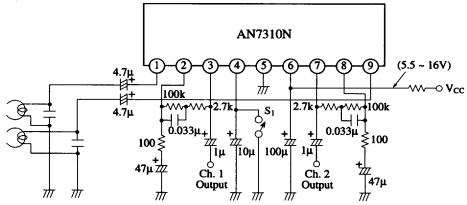
Test Circuit 2 (Vo, THD, Vni)



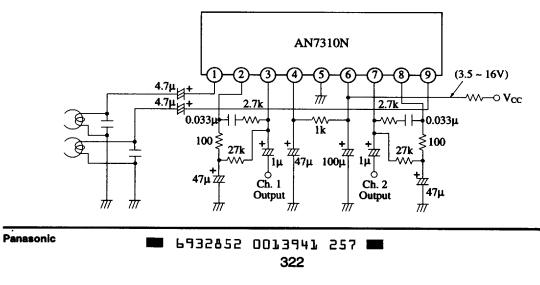
Note 1) THD is measured by equipment with 400Hz low pass filter Note 2) V_{ni} is measured by equipment with 15Hz ~ 30kHz band pass filter

Application Circuit

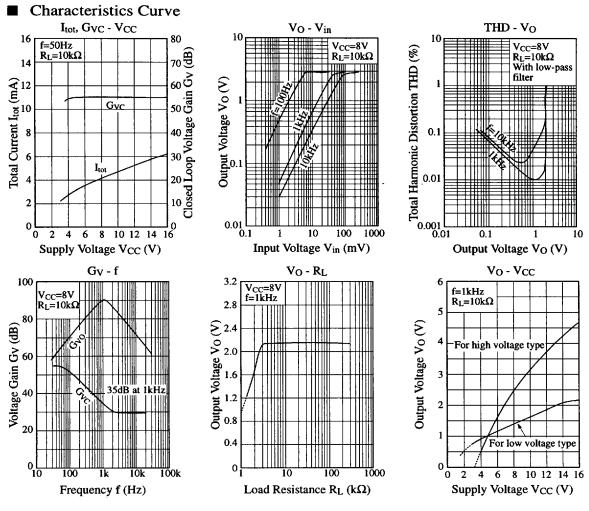
1. For high voltage type



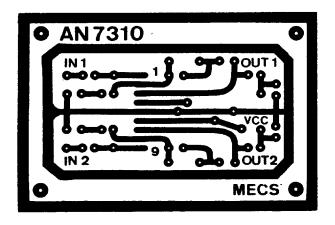
2. For low voltage type



AN7310N



Printed Circuit Board Layout (Scale: 1:1)



🖿 6932852 ОО13942 193 🎟 323 Panasonic