



LINEAR INTEGRATED CIRCUITS DATA

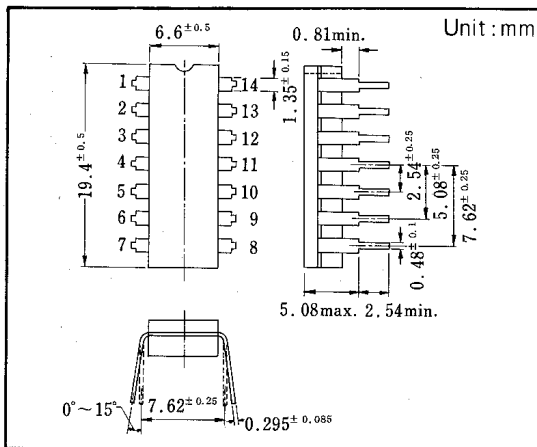
AN264

DUAL LOW NOISE PREAMPLIFIER

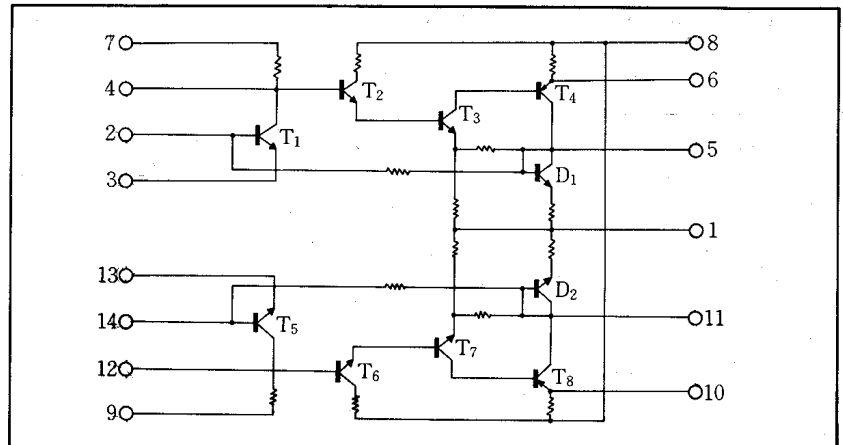
The AN264 is a monolithic high gain dual preamplifier designed for use as an equalizer amplifier, a tone control amplifier or general audio preamplifier in stereos and 8-track auto-stereos.

The device offers stable operating characteristics over a wide range of supply voltages. Its emitter-follower-coupled output circuit permits easier peripheral circuit designs. The device is hermetically sealed in a reliable ceramic package.

Outline Drawing



Equivalent Circuit



Quick Reference Data

Item	Symbol	Value	Unit
Supply Voltage	V _{CC}	9 ~ 20	V
Voltage Gain (Open Loop)	G _v	70	dB
Total Harmonic Distortion	D _{tot}	0.03	%
Input Impedance	Z _{IN}	100	KΩ
Input Converted Noise Voltage	V _{NI}	1.9	μF

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
Operating Ambient Temperature Range	Topr	-20 ~ +75	°C
Storage Temperature Range	Tstg	-65 ~ +150	°C
Supply Voltage	Vcc	24	V
Total Current Consumption	Itot	16	mA
Total Power Dissipation	PT	400	mW

Electrical Characteristics (Ta=25°C)

Item	Symbol	Test Circuit	Conditions	Limits			Unit
				Min.	Typ.	Max.	
Voltage Gain (Open Loop)	Gv(open)	1	Vcc=18V f=1kHz, Vo=1Vrms	65	70		dB
Total Harmonic Distortion	Dtot	2	Vcc=18V, Gv=34dB f=1kHz, Vo=1Vrms		0.03	0.1	%
Output Voltage	Vo	2	Vcc=18V, Gv=34dB f=1kHz, Dtot=1%	3			Vrms
Noise Level	VN	3	Vcc=18V, Rs=2.2KΩ BW=30Hz~65kHz, Gv=76dB		12	18	mVrms
Total Current Consumption	Itot	4	Vcc=18V	3		13	mA
Input Impedance	ZIN		Vcc=18V, Gv=34dB f=1kHz	50	100		KΩ

PT-Ta

