

TA7359P TA7727P

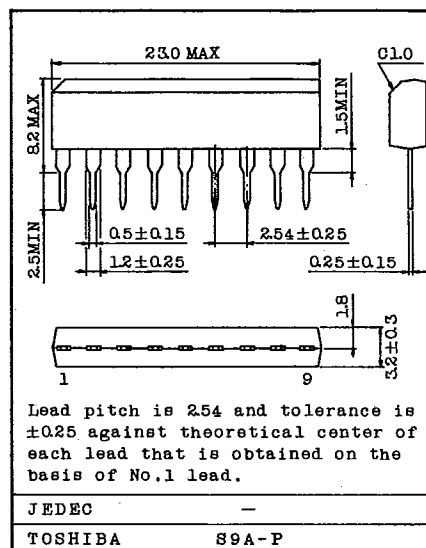
T-74-05-01

AUDIO DUAL PREAMPLIFIER.

The TA7359P and TA7727P are dual low noise pre amplifier improved on operational amplifier (4558 type) for consumer applications.

- Wide Operating Supply Voltage Range
: $V_{CC}, V_{EE} = \pm 1.5V \sim \pm 18.0V$
- Low Noise, Low Distortion
: $V_{NI} = 1\mu V_{rms} (Typ.)$
($R_g = 2.2k\Omega$, NAB, $f = 1kHz$, $G_V = 40dB$)
THD = 0.005%, ($V_{OUT} = 2.0V_{rms}$)
- The Recommended Closed Loop Voltage Gain in More Than 20dB.

Unit in mm



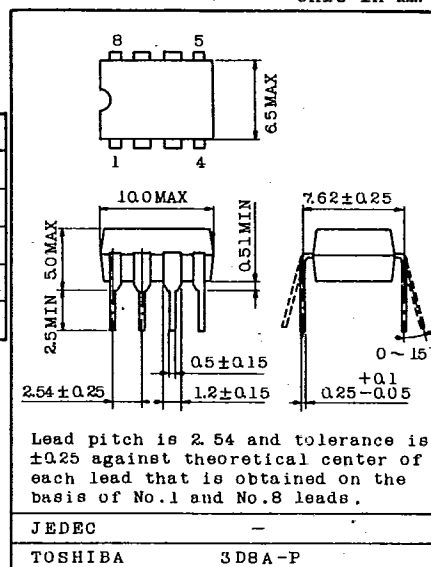
MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	±22	V
Power Dissipation	Note 1 P_D 1	750	mW
	Note 2 P_D 2	500	mW
Operating Temperature	T_{opr}	-25 ~ 75	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C

Note 1 TA7359P : Derated above $T_a = 25^\circ C$ in the proportion of 6mW/°C.

Note 2 TA7727P : Derated above $T_a = 25^\circ C$ in the proportion of 4mW/°C.

Unit in mm



TOSHIBA

9097247 TOSHIBA. ELECTRONIC

02E 17206 D

TA7359P**TA7727P**

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ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{CC}=4.5V$, $V_{EE}=-4.5V$, $f=1kHz$, $T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Quiescent Current	I_{CCQ}	1	$V_{IN}=0V$	-	2.7	4.0	mA
Equivalent Input Noise Voltage	V_{NI}	1	$R_g=2.2k\Omega$, NAB, $G_v=40dB$, $BW=20Hz\sim 30kHz$	-	1.0	1.3	μV_{rms}
Open Loop Voltage Gain	G_{VO}	1	$V_{OUT}=2.0V_{rms}$	75	85	-	dB
Total Harmonic Distortion	THD	1	$V_{OUT}=2.0V_{rms}$	-	0.005	0.01	%
Maximum Output Voltage	V_{OM}	1	THD=0.5%	2.0	2.7	-	V_{rms}
Channel Cross Talk	C.T.	1	$R_g=2.2k\Omega$ $V_{OUT}=2.0V_{rms}$	65	76	-	dB
Input Bias Current	I_{IB}	-	-	-	0.65	-	μA

DC CHARACTERISTICS

(V_{CC}=4.5V, V_{EE}=-4.5V, R_g=2.2k Ω , Terminal Voltage at No Signal)

(Unit in mV)

TERMINAL No. TYPE	1	2	3	4	5	6	7	8	9
TA7359P	V _{CC}	15	75	75	V _{EE}	75	75	15	V _{CC}
TA7727P	15	75	75	V _{EE}	75	75	15	V _{CC}	

AUDIO LINEAR IC

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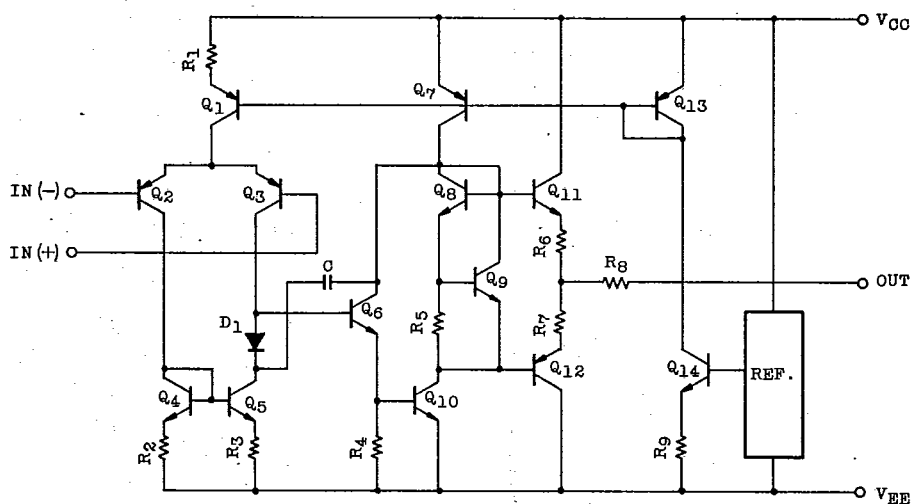
9097247 TOSHIBA. ELECTRONIC

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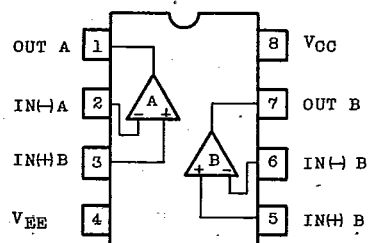
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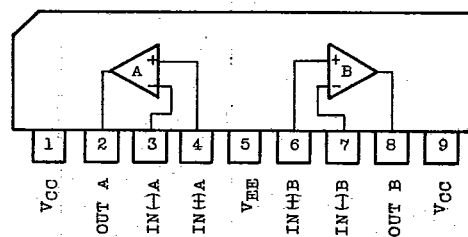
EQUIVALENT CIRCUIT



TA7727P



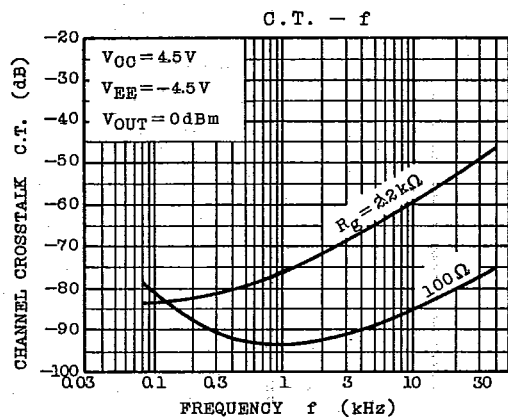
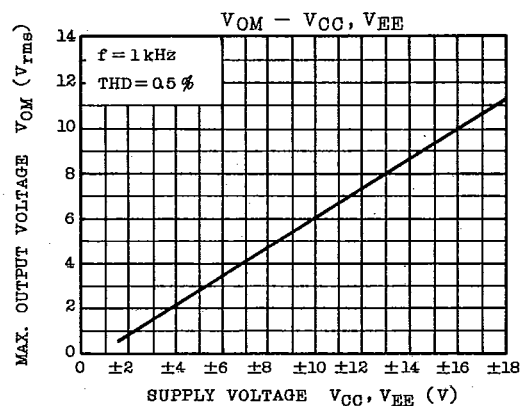
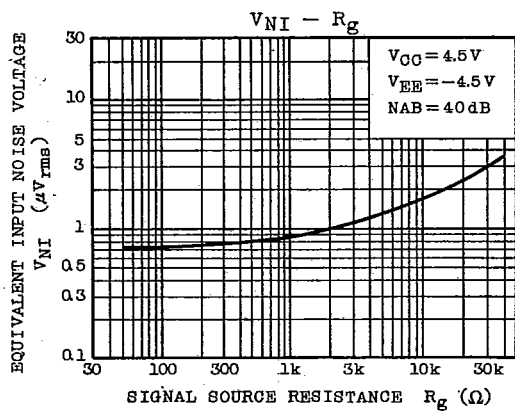
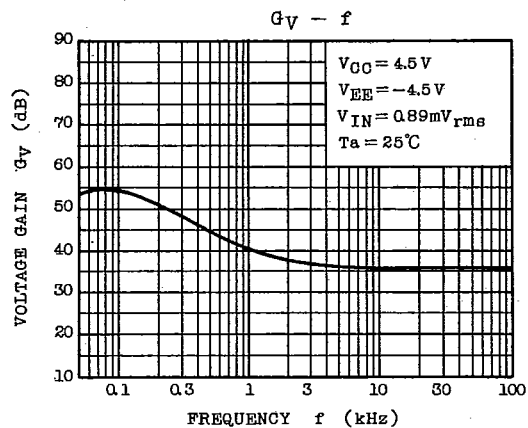
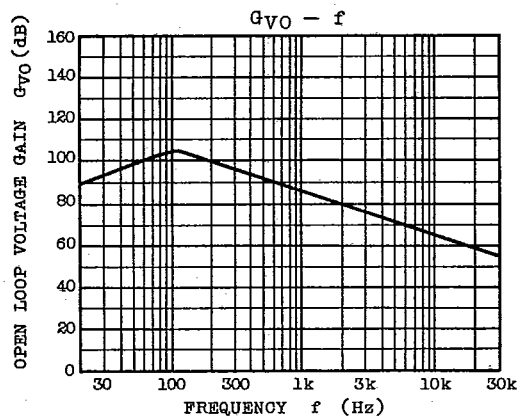
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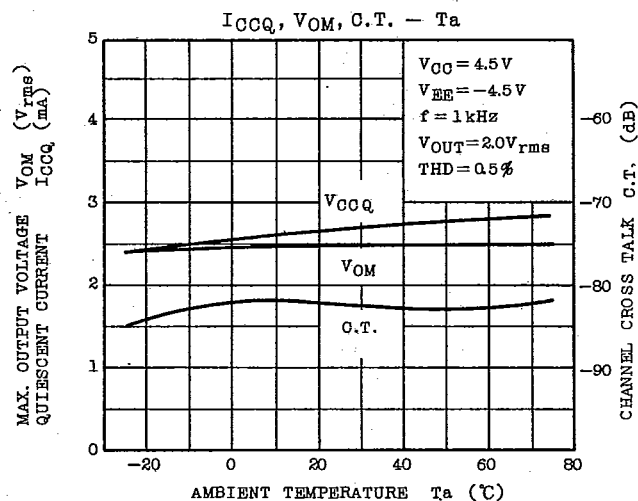


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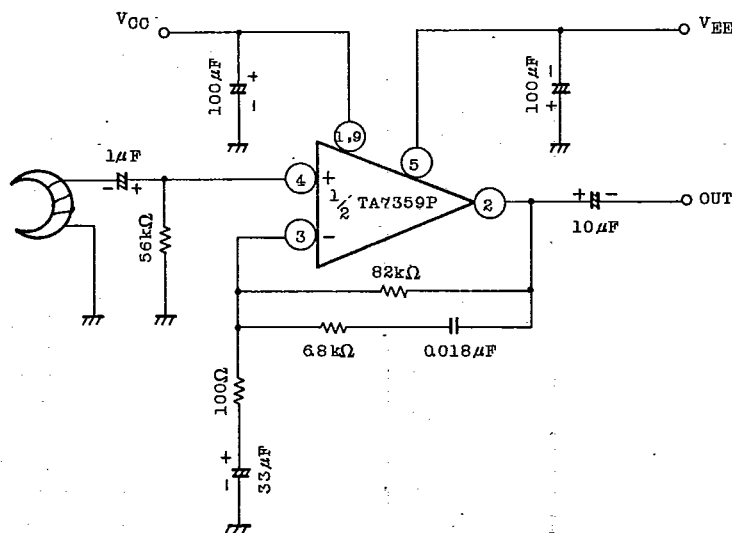
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APPLICATION



AUDIO LINEAR IC