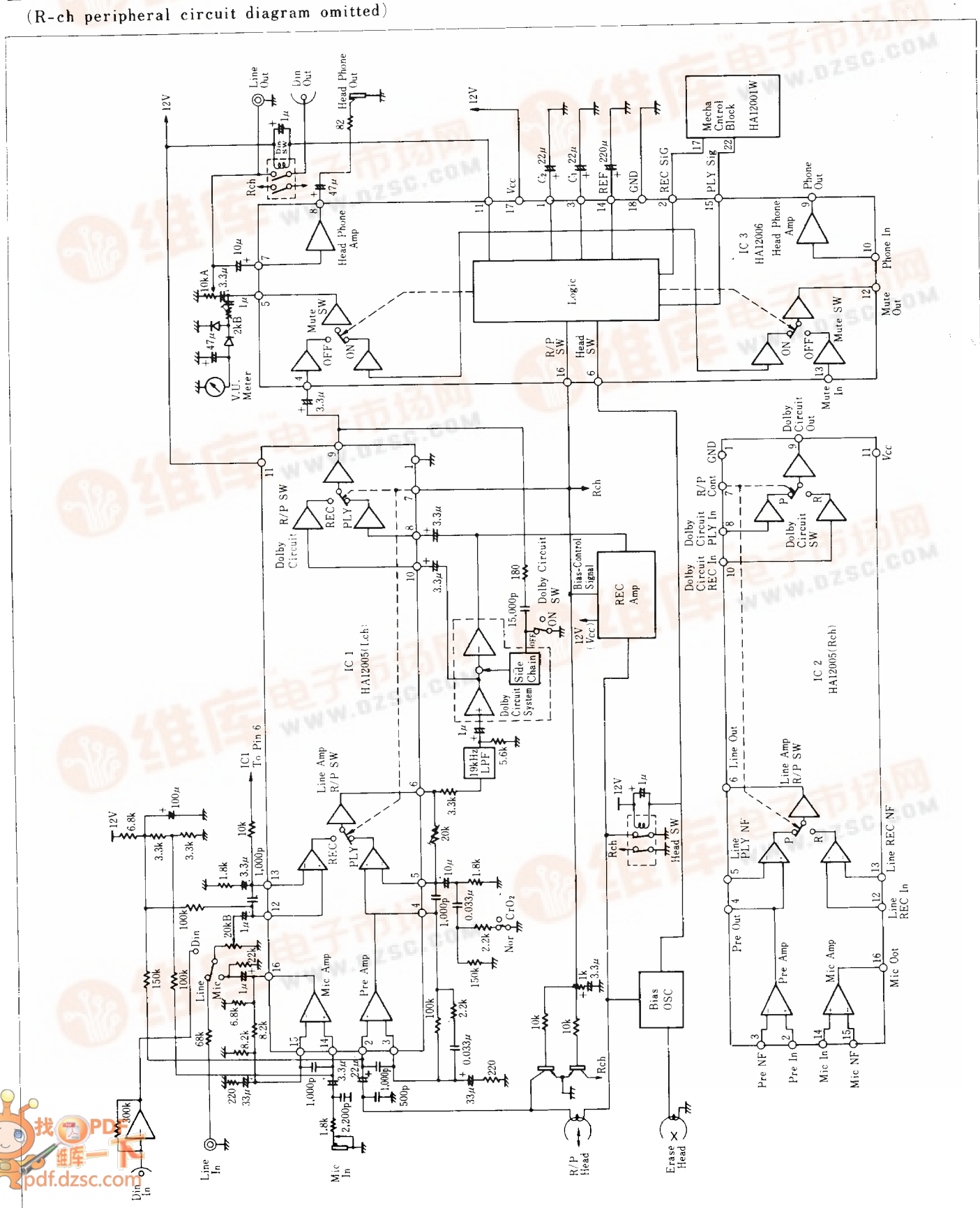
查询HA12005供应商 捷多邦，专业PCB打样工厂，24小时加急出货

■BLOCK DIAGRAM FOR ELECTRONIC-CONTROLLED CASSETTE DECK SYSTEM

(R-ch peripheral circuit diagram omitted)



■ELECTRICAL CHARACTERISTICS (Unless otherwise specified, $Ta=25℃$, $V_{CC}=12V$, $f_i=1kHz$)

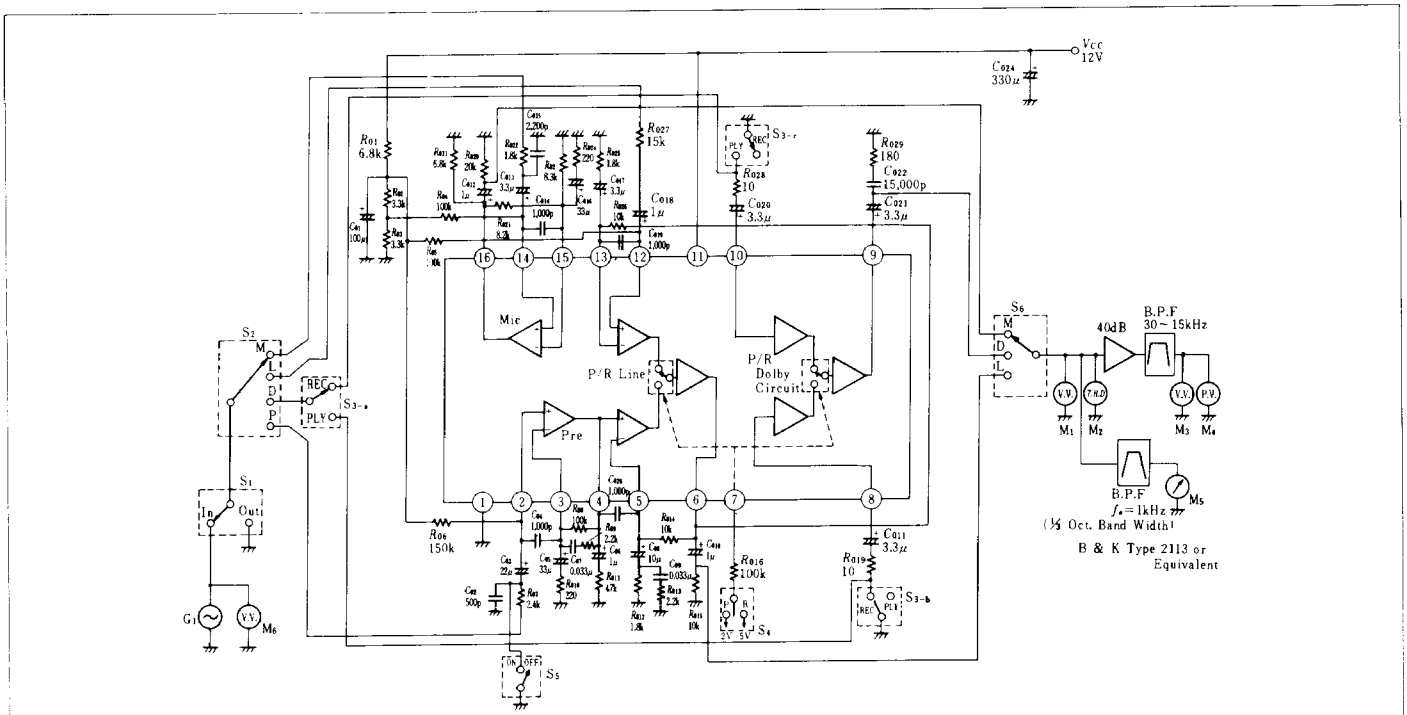
	Item	Symbol	Test Conditions		min.	typ.	max.	Unit.
Quiescent Current		I_Q	No input signal		—	10	17	mA
Pre+PLY LINE Amp	Max Output Voltage	$(e_{o\,MAX})_{PL}$	$T.H.D \leq 1\%$		1.2	2.0	—	Vrms
	Total Harmonic Distortion	$(T.H.D)_{PL}$	$e_{o\,PL}=550mVrms$		—	0.1	0.5	%
	Noise Output Voltage	$(e_{on})_{PL}$	$V_{CC}=15V$, $R_g=2.4k\Omega$	30Hz to 15kHz B.P.F.	—	180	460	μVrms
				CCIR Filter	—	150	400	
	Pulse-form Noise Output Voltage	$(P_N)_{PL}$	$V_{CC}=15V$, $R_g=2.4k\Omega$, $t=5$ sec. 30Hz to 15kHz, B.P.F.		—	1.8	5.0	mVpp
	Hum Rejection	$(H.R)_{PL}$	$f_i=100Hz$, $R_g=2.4k\Omega$		—	7.5	—	dB
Mic Amp	Max.Output Voltage	$(e_{o\,MAX})_M$	$T.H.D \leq 1\%$		2.2	3.3	—	Vrms
	Total Harmonic Distortion	$(T.H.D)_M$	$e_{OM}=550mVrms$		—	0.1	0.5	%
	Noise Output Voltage	$(e_{on})_M$	$V_{CC}=15V$, $R_g=1.8k\Omega$	30Hz to 15kHz B.P.F.	—	31	70	μVrms
				CCIR Filter	—	45	100	
	Hum Rejection	$(H.R)_M$	$f_i=100Hz$, $R_g=1.8k\Omega$		—	38	—	dB
REC LINE Amp	Max.Output Voltage	$(e_{o\,MAX})_L$	$T.H.D \leq 1\%$		1.2	2.0	—	Vrms
	Total Harmonic Distortion	$(T.H.D)_L$	$e_{OL}=550mVrms$		—	0.1	0.5	%
	Noise Output Voltage	$(e_{on})_L$	$V_{CC}=15V$, $R_g=15k\Omega$	30Hz to 15kHz B.P.F.	—	15	31	μVrms
				CCIR Filter	—	20	45	
	Hum Rejection	$(H.R)_L$	$f_i=100Hz$, $R_g=15k\Omega$		—	50	—	dB
DOLBY Circuit SW	Total Harmonic Distortion	$(T.H.D)_D$	$e_{OD}=550mVrms$, for both *REC* and *PLY*		—	0.1	0.5	%
SW	Leakage Voltage at *REC/PLY* Amp SW	e_{LL}	Mic Amp IN=10mVrms, $R_g=0$ $f_O=1kHz$, 1/3 Oct B.P.F.		—	20	125	μVrms
	Leakage Voltage at DOLBY *REC/PLY* SW	e_{LD}	DOLBY CIRCUIT IN=2.7Vrms, $f_o=1kHz$, 1/3 Oct B.P.F. $R_g=10\Omega+3.3\mu F$		—	50	340	μVrms
	REC/PLY Switching Voltage level	*REC*	*PLY*→*REC*		5	—	—	V
		PLY	*REC*→*PLY*		—	—	2	V

Note 1. Tape select switch is connected to normal tape position.

2. Closed-loop Typical Voltage Gain ($f_i=1kHz$)

Mic Amp 31.3dB Pre + PLY LINE Amp 44.3dB REC LINE Amp 16.0dB DOLBY Circuit SW 0dB

■TEST CIRCUIT



■SWITCH POSITIONS FOR TEST CIRCUIT

Item	SW Position						Instrument
	S_1	S_2	S_3	S_4	S_5	S_6	
$(e_{on})_M$ *4	Out	M	*1	R	ON	M	M_3
$(e_{on})_{PL}$ *4	Out	P	*1	P	OFF	L	M_3
$(e_{on})_L$ *4	Out	L	*1	R	ON	L	M_3
$(P_N)_{PL}$ *4	Out	P	*1	P	OFF	L	M_4
$(e_{o\,MAX})_M$	In	M	*1	R	ON	M	M_1
$(e_{o\,MAX})_{PL}$	In	P	*1	P	OFF	L	M_1
$(e_{o\,MAX})_L$	In	L	*1	R	ON	L	M_1
$(T.H.D)_{DP}$ *2	In	D	PLY	P	ON	D	M_2
$(T.H.D)_{DR}$ *3	In	D	REC	R	ON	D	M_2
$(T.H.D)_M$	In	M	*1	R	ON	M	M_2
$(T.H.D)_{PL}$	In	P	*1	P	OFF	L	M_2
$(T.H.D)_L$	In	L	*1	R	ON	L	M_2
e_{LL}	In	M	*1	P	ON	L	M_5
e_{LD}	In	D	PLY/REC	P/R	ON	D	M_5

Notes : *1) REC or PLY
*2) $(T.H.D)_{DP}$: Distortion at PLY
*3) $(T.H.D)_{DR}$: Distortion at REC
*4) For $(e_{on})_M$, $(e_{on})_{PL}$, $(e_{on})_L$ and $(P_N)_{PL}$, 1/100 of the pointed value adopted. (See ELECTRICAL CHARACTERISTICS.)

■CAUTIONS FOR MEASUREMENT

1) For instrument accuracy, keep the ranges listed below.

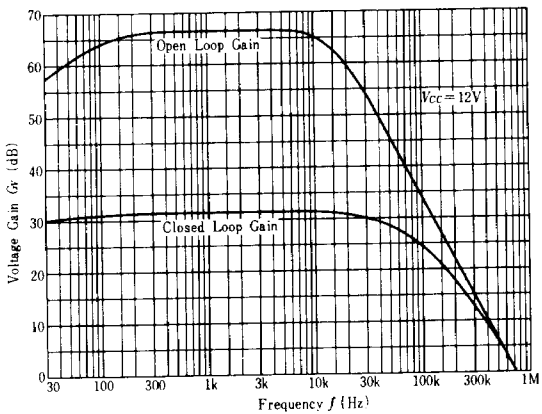
Item		Range	Note
Audio Signal Generator (G_1)	Distortion	0.05%	Under the frequency of 30Hz to 16kHz
	Output Impedance	600Ω	
Audio Voltmeter (M_1, M_3)	Logarithm Scale	±1%	
External Resistor	Error	±1%	
Chemical Condensers	Error	±20%	Check the error range by measuring the instrument.
Condensers	Error	±10%	Except Chemical Condensers.

2) The following types of meter are recommended. Equivalents may be used.

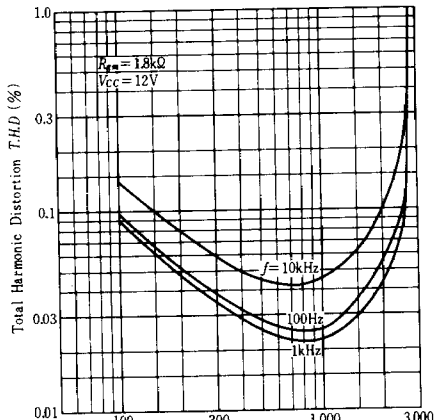
Audio Voltmeter	(M_1, M_2)	HP400EL
Pulse Noise Peak Meter	(M_4)	PM-60(Toa-Dempa)
Distortion Meter	(M_2)	Shibaden 870

3) Before measuring, check the output waveform for no induced-disturbance.

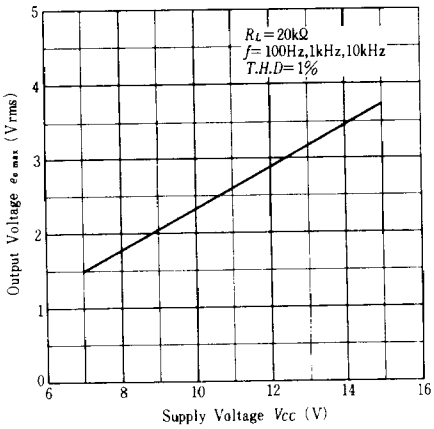
VOLTAGE GAIN OF MIC. AMP. VS. FREQUENCY



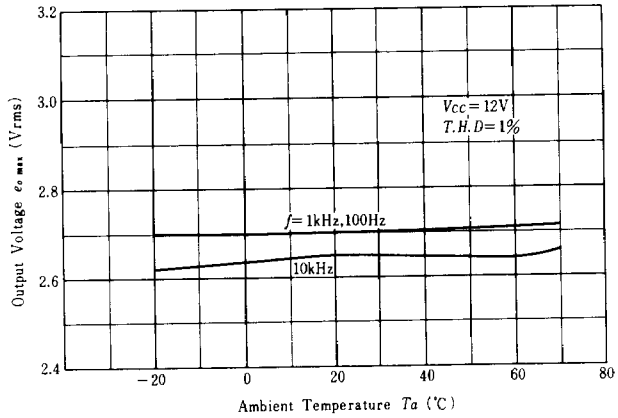
TOTAL HARMONIC DISTORTION OF MIC. AMP. VS. OUTPUT VOLTAGE



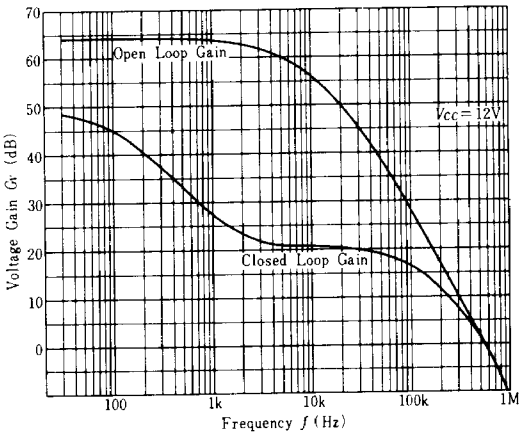
OUTPUT VOLTAGE OF MIC. AMP. VS. SUPPLY VOLTAGE



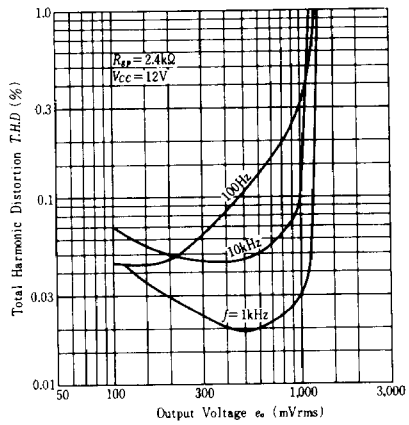
OUTPUT VOLTAGE OF MIC. AMP. VS. AMBIENT TEMPERATURE



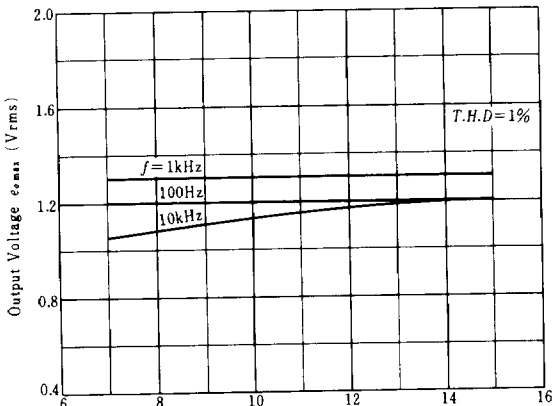
VOLTAGE GAIN OF PREAMP. VS. FREQUENCY



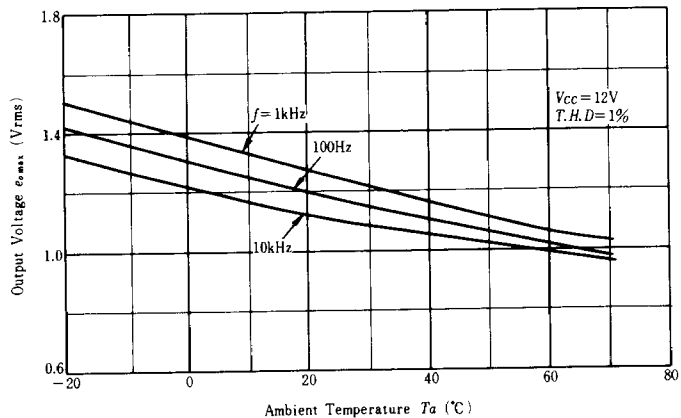
TOTAL HARMONIC DISTORTION OF PREAMP. VS. OUTPUT VOLTAGE



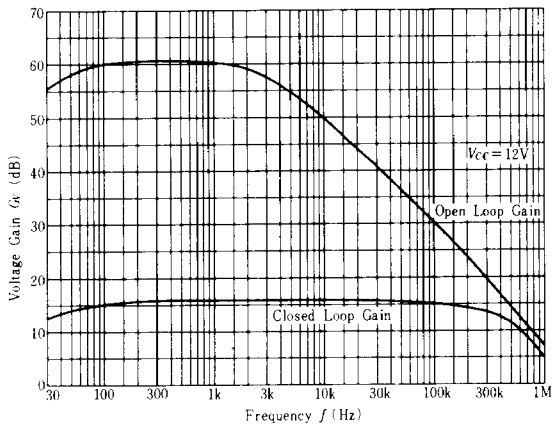
OUTPUT VOLTAGE OF PREAMP. VS. SUPPLY VOLTAGE



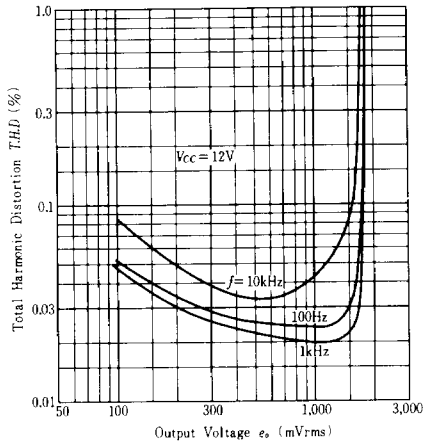
OUTPUT VOLTAGE OF PREAMP. VS. AMBIENT TEMPERATURE



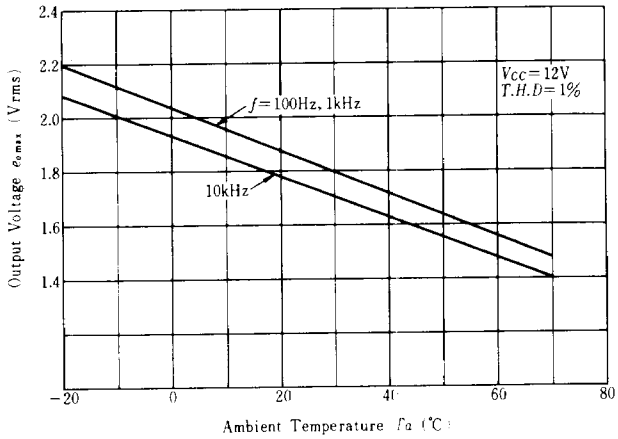
VOLTAGE GAIN OF LINE AMP. VS. FREQUENCY



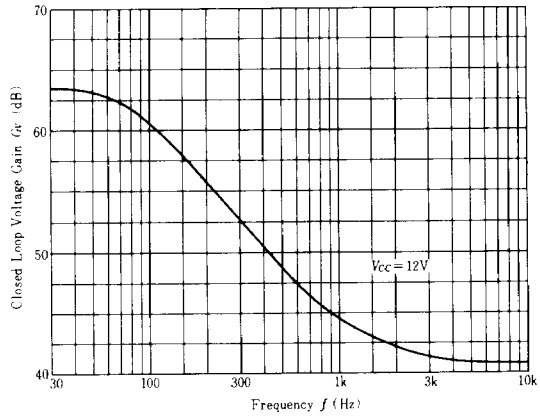
TOTAL HARMONIC DISTORTION OF LINE AMP(REC) VS. OUTPUT VOLTAGE



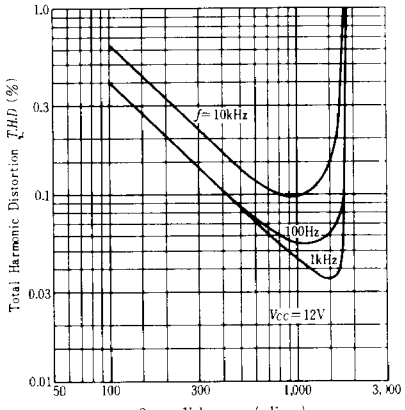
OUTPUT VOLTAGE OF LINE AMP.(REC) VS. AMBIENT TEMPERATURE



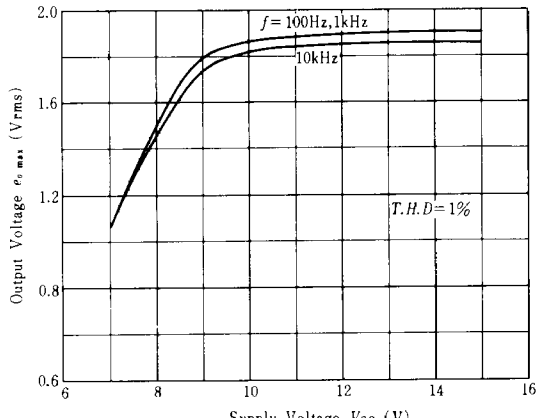
CLOSED LOOP VOLTAGE GAIN OF PREAMP. PLUS LINE AMP. VS. FREQUENCY



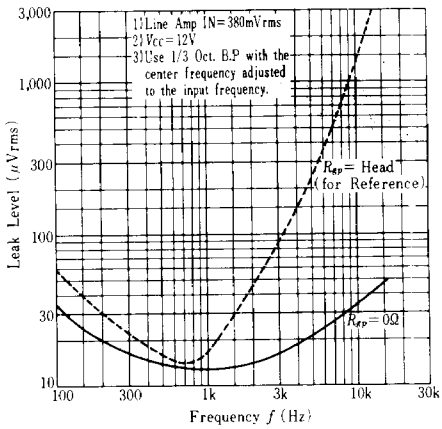
TOTAL HARMONIC DISTORTION OF PREAMP. PLUS LINE AMP. VS. OUTPUT VOLTAGE



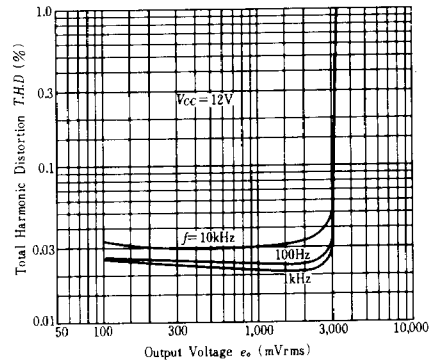
OUTPUT VOLTAGE OF PREAMP. PLUS LINE AMP. VS. SUPPLY VOLTAGE



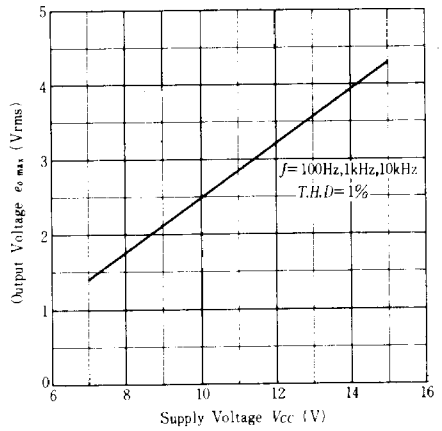
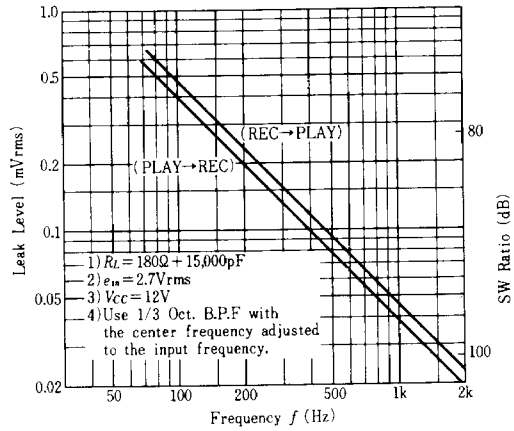
REC/PLY LEAK LEVEL VS. FREQUENCY



TOTAL HARMONIC DISTORTION OF DOLBY CIRCUIT SWITCH VS. OUTPUT VOLTAGE



OUTPUT VOLTAGE OF R/P DOLBY CIRCUIT SWITCH VS. SUPPLY VOLTAGE



R/P LEAK LEVEL OF DOLBY CIRCUIT SWITCH VS. FREQUENCY