

T-74-05-01

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6427525 N E C ELECTRONICS INC

	μPC12	25H
05E	22727	D

ABSOLUTE MAXMUM RATINGS (Ta = 25 °C) Supply Voltage (Quiscent) V_{CC1} ±50 Supply Voltage (Operational) V_{CC2} ±45 Quiscent Circuit Current I_{CC} 200

Quiscent Circuit Current	lcc	200	mΑ
Allowable Package Dissipation	CC(PEAK)	4.1	w
Operational Temperature	Topt	-20 to +75	°c
Storage Temperature	Tstg	-40 to +150	°c

RECOMMENDED OPERATING CONDITION

Supply Voltage (Operational)	$V_{CC} = \pm 18$ to ± 36 V at Max Power Output
Input Bias Resistance	R _{IN} = 1 to 50 to 100 kohms
Power Transistor hFE	h _{FE} = 50 at Max Power Output
Closed Loop Voltage Gain	A _V = 26 to 30 dB

ELECTRICAL CHARACTERISTICS (V_{CC} = \pm 36 V, A_v = 30 dB, Use Standard Test Circuit, Ta = 25 °C)

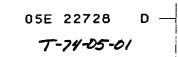
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITION
Output Offset Voltage	VOFF		±5	±100	mν	SEE TEST CIRCUIT 1
Quiscent Circuit Current	Icc		20	40	mA	VIN=0
Maximum Output Voltage	VOM	20	23		v	T.H.D. = 0.05 % f = 20 to 20 kHz
Open Loop Voltage Gain	Avo	80	95		dB	V ₀ = 1.5 V, f = 1 kHz
Output Noise Voltage	VNO		0.07	0.14	mV	RG = 10 kohms
Power Band Width	P.B.W.		900		kHz	V _o = 1.5 V, ~3 dB
Supply Voltage Rejection Ratio	S.V.R.	55	70		dB	RG = 2 kohms, f = 100 Hz

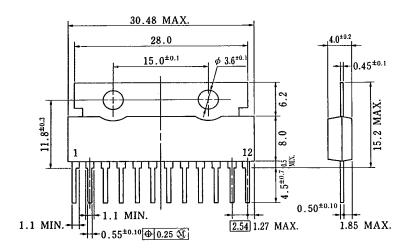
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PACKAGE DIMENSIONS (Unit: mm)



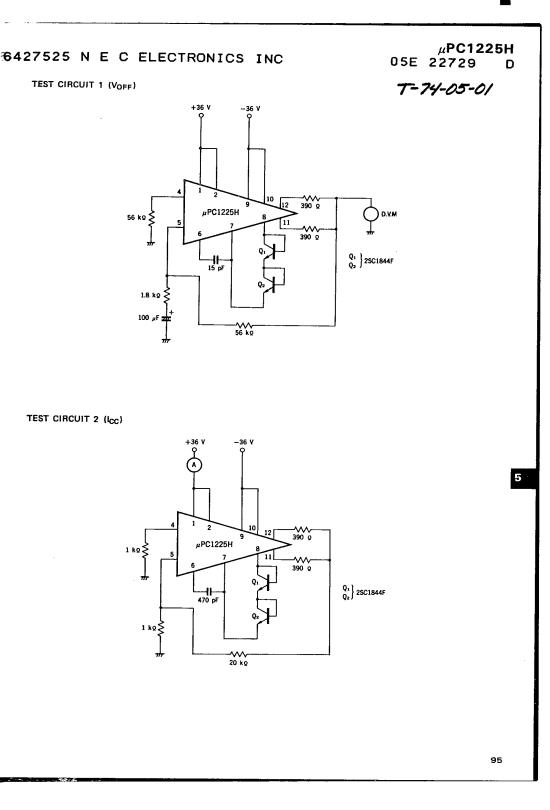


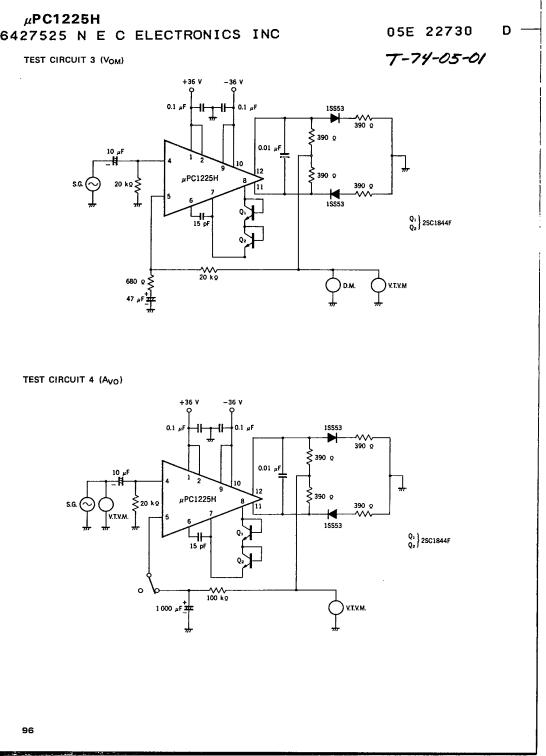
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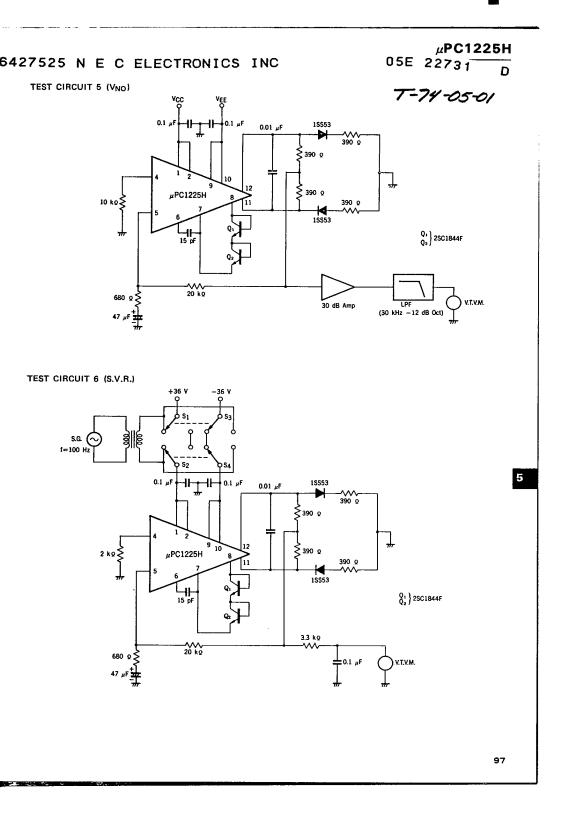
PIN CONNECTION DIAGRAM

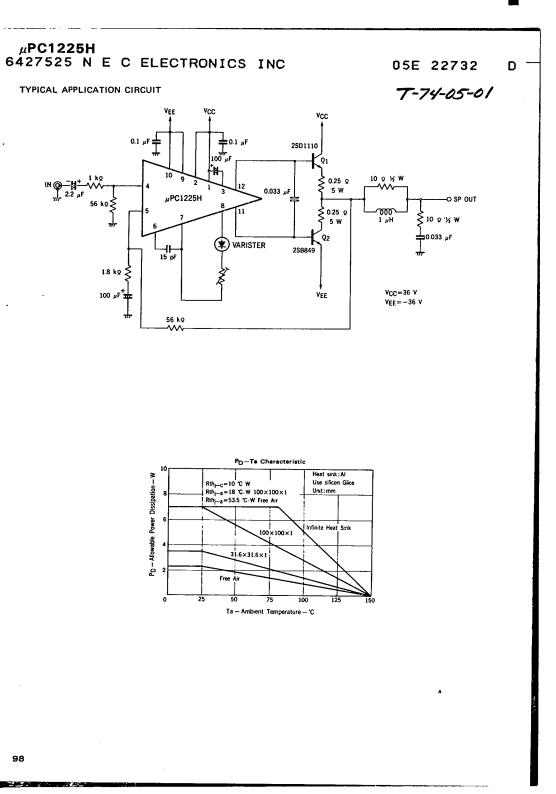
Pin No.	Pin connection
1	+V _{CCD} (for Driver)
2	+V _{CCP} (for Preamp)
3	MUTING
4	INPUT
5	NFB
6	PHASE COMP
7	BIAS
8	BIAS
9	-V _{CCP} (for Preamp)
10	-V _{CCD} (for Driver)
11	LOWER OUTPUT
12	UPPER OUTPUT

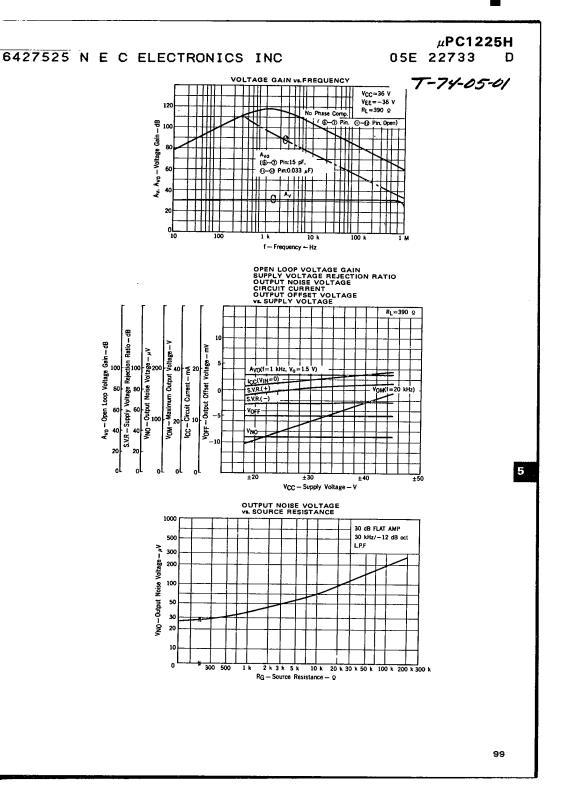
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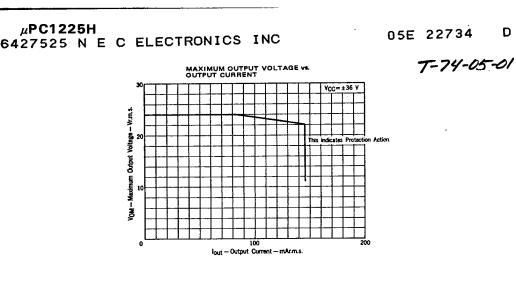


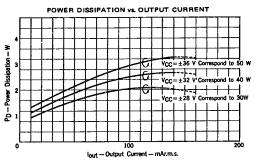


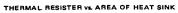


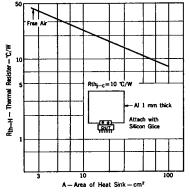
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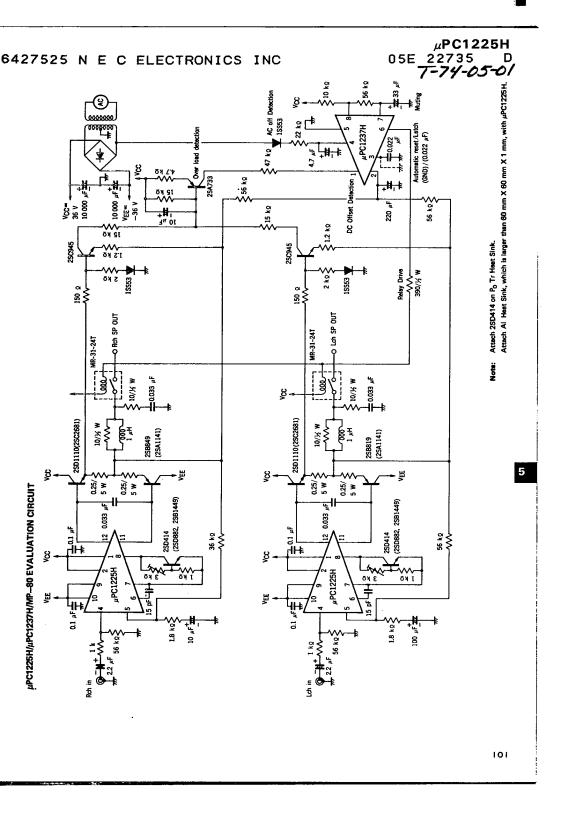


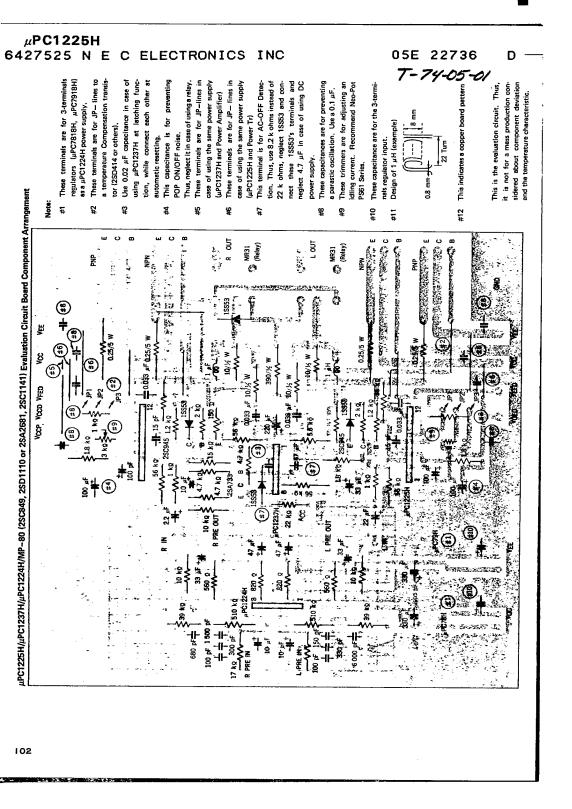


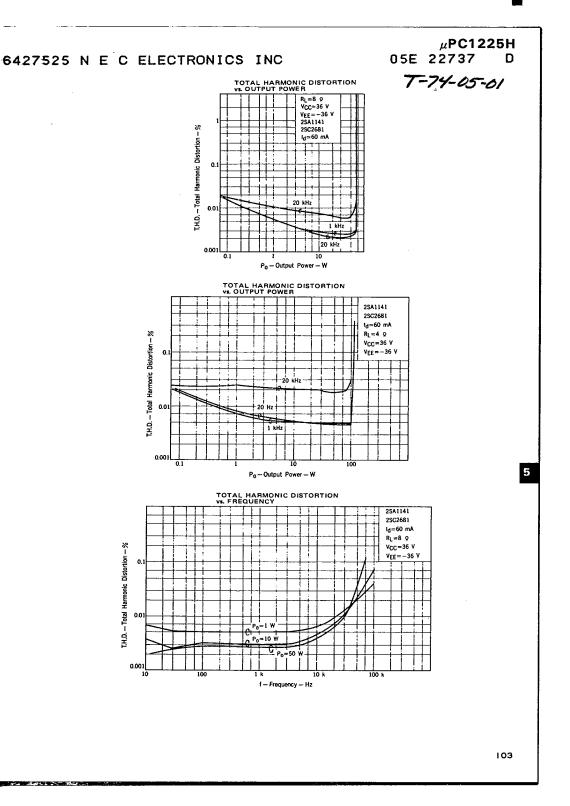


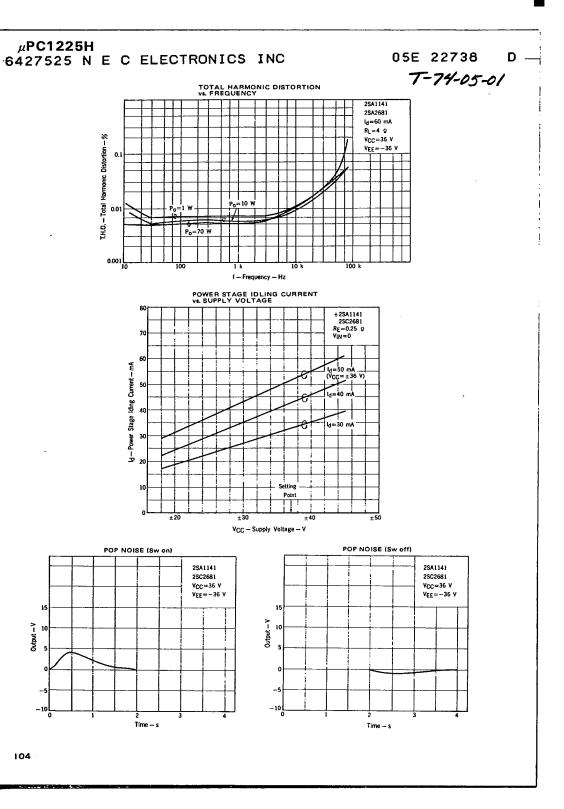


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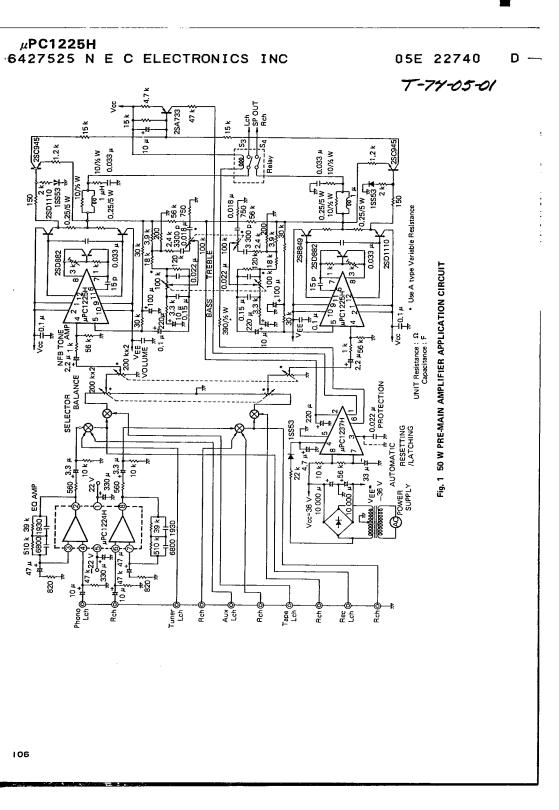
 (1) Design Specification a. Pre amplifier stage (equalizer amplifier) Supply Voltage Vcc=±22 V Input equivalent Noise Voltage V_{NL}=0.815 μVr.m.s. TYP. Phono Allowable Input Level 222 mVr.m.s, TYP. (T.H.D.=0.1 %, f=1 kHz) b. Power amplifier stage Supply Voltage Vcc=±36 V Load impedance R_L=8 Ω Continuous Output Power Po=50 W (T.H.D.=0.1 %) 	ation tage (equalizer amplifier) age Vcc=±22 V silent Noise Voltage V _{NL} =0.815 μVr.m.s. TYP. vable Input Level 222 mVr.m.s. TYP. (T.H.D.=0.1 %, f=1 kHz) r stage ege Vcc=±36 V ance RL=8 Ω Output Power Po=50 W (T.H.D.=0.1 %) n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s.	6427525 N E C ELECTRO	NICS INC	µ PC12 05E 22739	25H D
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Supply Voltage Vcc=±22 V Input equivalent Noise Voltage V _{NL} =0.815 μVr.m.s. TYP. Phono Allowable Input Level 222 mVr.m.s, TYP. (T.H.D.=0.1 %, f=1 kHz) b. Power amplifier stage Supply Voltage Vcc=±36 V Load impedance RL=8 Ω Continuous Output Power Po=50 W (T.H.D.=0.1 %)	age Vcc= $\pm 22 \vee$ slent Noise Voltage V _{NL} =0.815 µVr.m.s. TYP. vable Input Level 222 mVr.m.s. TYP. (T.H.D.=0.1 %, f=1 kHz) r stage age Vcc= $\pm 36 \vee$ ance R_=8 Ω Output Power Po=50 W (T.H.D.=0.1 %) n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ±10 dB	(1) Design Specification			
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Phono Allowable Input Level 222 mVr.m.s. TYP. (T.H.D.=0.1 %, f=1 kHz) b. Power amplifier stage Supply Voltage Vcc= ±36 V Load impedance RL=8 Ω Continuous Output Power Po=50 W (T.H.D.=0.1 %)	vable Input Level 222 mVr.m.s. TYP. (T.H.D.=0.1 %, f=1 kHz) r stage age Vcc= ±36 V ance RL=8 Ω Output Power Po=50 W (T.H.D.=0.1 %) n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ±10 dB	Supply Voltage Vcc=±22 V			
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Load impedance RL=8 Ω Continuous Output Power Po=50 W (T.H.D.=0.1 %)	ance RL=8 Ω Output Power Po=50 W (T.H.D.=0.1 %) n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ±10 dB	b. Power amplifier stage			
Continuous Output Power Po=50 W (T.H.D.=0.1 %)	Output Power Po=50 W (T.H.D.=0.1 %) n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ±10 dB	Supply Voltage Vcc= ±36 V			
	n (at flat state) Av=43 dB ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ±10 dB	Load impedance RL=8 Ω			
	ivity Vin=142 Vr.m.s. rying Voltage gain 100 Hz ± 10 dB	Continuous Output Power Po=50	W (T.H.D.=0.1 %)		
Voltage Gain (at flat state) Av=43 dB	rying Voltage gain 100 Hz ±10 dB	Voltage Gain (at flat state) Av=43	3 dB		
Input Sensitivity Vin=142 Vr.m.s.		Input Sensitivity Vin=142 Vr.m.s			
Range of Varying Voltage gain 100 Hz ±10 dB	10 kHz ±10 dB	Range of Varying Voltage gain	100 Hz ±10 dB		
10 kHz ±10 dB			10 kHz ±10 dB		
(2) Description		-			
μPC1224H is chosen as EQ amplifier. The internal circuit of this IC is composed of two d amplifiers as voltage amplifier stage and SEPP output circuit. Thus, this IC is available for flat amplifier					

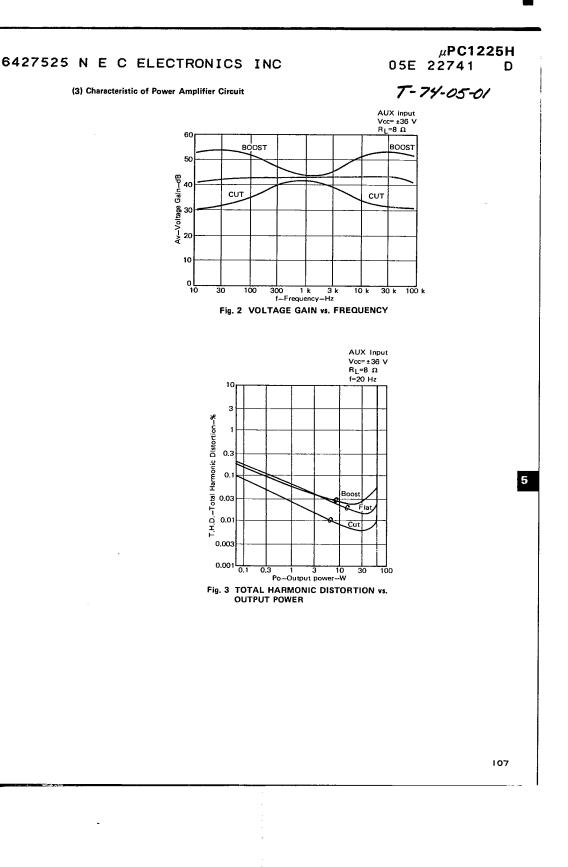
Power amplifier stage is composed of NFB tone control amplifier using μ PC1225H. This power driver IC is also available for flat amplifier. And μ PC1237H is chosen as a protector.

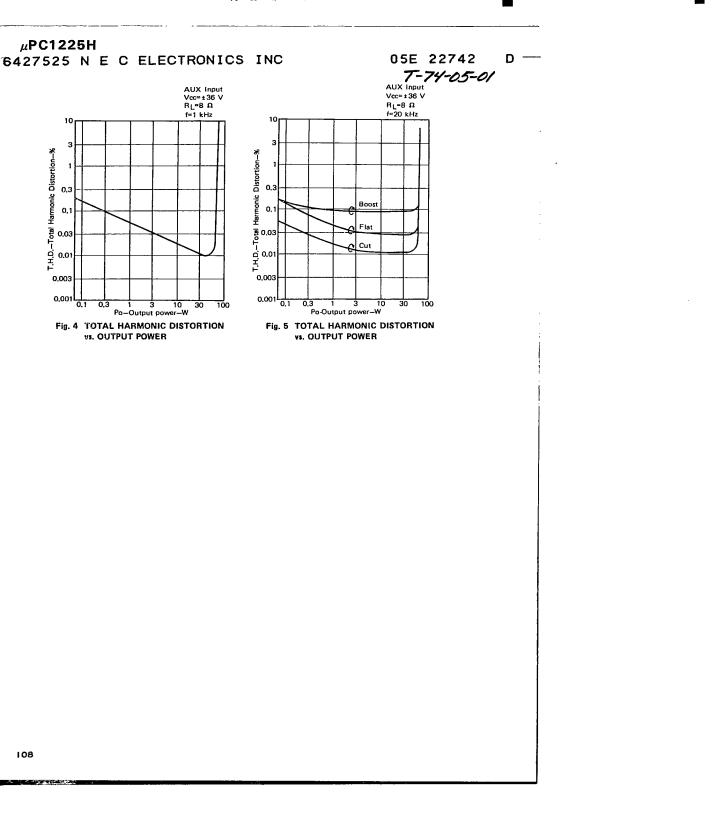
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