

Low Noise Preamplifiers

Type No.	Use	Circuit Description	Supply Voltage (V)	Electrical Characteristics	Package Outline
μ PC566H	Car stereo set Cassette-tape recorder Home stereo set	<ul style="list-style-type: none"> 2-stage amplifier with high input impedance Emitter-follower output 	4~12	(Ta = 25°C, V _{CC} = 7V, f = 1kHz, R _L = 22kΩ) I _{CC} 1~1.35 ~1.7 (mA) A _{vo} 67~71 ~ (dB) A _v 38.5~ ~43.5 (dB) R _{NF} = 22kΩ V _{OM} 1.2~1.5 ~ (V) NAB V _{nin} ~1.4 ~2.0 (μV) NAB, R _G = 2.2kΩ	7-pin SIP Ⓐ
μ PC566H3	Car stereo set Cassette-tape recorder Home stereo set	<ul style="list-style-type: none"> 2-stage amplifier with high input impedance Emitter-follower output 	4~13	(Ta = 25°C, V _{CC} = 8V, f = 1kHz, R _L = 22kΩ) I _{CC} 1.2~1.5 ~1.9 (mA) A _{vo} 67~72.5 ~ (dB) A _v 41.5 ~ ~46.5 (dB) R _{NF} = 22kΩ V _{OM} 1.2~1.75 ~ (V) NAB V _{nin} ~1.2 ~2.0 (μV) NAB, R _G = 2.2kΩ	7-pin SIP Ⓐ
μ PC573C	Cassette-tape recorder Tape recorder	Contains four circuit blocks: Differential-type AGC amp., 2-stage direct coupled tone amp. with emitter follower output stage, Recording amp., and Level meter amp.	3~9	(Ta = 25°C, V _{CC} = 6V, f = 1kHz) I _{CC} 5~7 ~10 (mA) A _{vo} 56~60 ~ (dB) R _{NF} = 120Ω V _{OM} 46~50 ~54 (dB) R _{NF} = 120Ω V _{nin} 0.8~1.4 ~ (V) R _{NF} = 120Ω V _{nin} ~3.0 ~5.0 (μV) R _G = 10kΩ/470pF A _{vo} 66~72 ~ (dB) R _{NF} = 39Ω A _v 56~60 ~64 (dB) R _{NF} = 39Ω V _{OM} 0.8~1.4 ~ (V) R _{NF} = 39Ω V _{nin} ~3.0 ~4.0 (dB) R _G = 10kΩ/470pF A _v 12~14.5 ~17 (dB) V _{OM} 1.0~1.7 ~ (V) AGC 35~44 ~ (dB)	16-pin DIP J
μ PC592H2	Car stereo set Cassette-tape recorder Home stereo set	<ul style="list-style-type: none"> 2-stage amplifier with high input impedance 	5~13	(Ta = 25°C, V _{CC} = 8V, f = 1kHz, R _L = 5.1kΩ) I _{CC} 0.7~1.3 ~1.9 (mA) A _{vo} 75~79 ~83 (dB) R _{NF} = 35kΩ A _v 46.5~49.5 ~52.5 (dB) R _{NF} = 35kΩ V _{OM} 1.0~1.3 ~ (V) R _G = 2.2kΩ, NAB = 35dB V _{nin} ~1.5 ~2.0 (μV) R _G = 2.2kΩ, NAB = 51dB V _{nin} ~1.2 ~ (μV)	7-pin SIP Ⓐ
μ PC1016C	Stereo set Stereo tape deck	<ul style="list-style-type: none"> High impedance differential input 3-stage amplifier Complementary output Dual channel Single or dual power supply operation 	±8~±16	(Ta = 25°C, V _{CC} = ±12V, f = 1kHz, R _L = 10kΩ) I _{CC} 2.0~3.3 ~5.0 (mA) A _{vo} 85~100 ~ (dB) R _{IAA} A _v 32.2~32.5 ~32.7 (dB) R _{IAA} V _{OM} 7.0~7.7 ~ (V) R _{IAA} , V _O = 3V T.H.D. ~0.02 ~0.1 (%) R _{IAA} , V _O = 3V R _i ~420 ~ (kΩ) V _{nin} ~0.7 ~1.3 (μV) R _{IAA} , R _G = 2.2kΩ NF ~1.8 ~ (dB) R _G = 10kΩ, f = 10Hz C.S. ~-90 ~ (dB) R _G = 2.2kΩ, V _O = 6V	14-pin DIP Ⓒ
μ PC1023H	Stereo set Cassette-tape recorder	<ul style="list-style-type: none"> Direct coupled 2-stage amplifier Common emitter output stage 	30~40	(Ta = 25°C, V _{CC} = 35V, f = 1kHz, R _L = 47kΩ) I _{CC} ~3.5 ~6.0 (mA) A _{vo} 87~92 ~ (dB) R _{NF} = 22kΩ A _v 38.5~42.5 ~ (dB) V _{OM} 7.0~ (V) T.H.D. ~0.015~ (%) R _{IAA} , V _O = 5V R _i 78~100 ~ (kΩ) V _{nin} ~0.7 ~1.3 (μV) R _{IAA} , R _G = 2.2kΩ NF ~1.8 ~ (dB) R _G = 10kΩ, f = 10Hz	7-pin SIP Ⓐ

Hearing Aid IC

Type No.	Use	Circuit Description	Supply Voltage (V)	Electrical Characteristics	Package Outline
μ PC12G	Hearing aid	4-stage high gain low noise amplifier	1.3	(Ta = 25°C, V _{CC} = 1.3V, f = 1kHz) I _{CC} 0.8~1.5 ~3.2 (mA) R _a = 33kΩ A _{vo} 75~82 ~ (dB) V _i = 10μV r.m.s. NL ~2.5 (mV) A _v = 75 dB V _{OM} ~450 ~ (mV) I _{c4} = 1.4mA clipping point	10-pin flat Package E