CAR AUDIO

Dolby B/C Type NR

NR9570 is a highly integrated IC which contains in its inside HA12151, which is one chip IC of 2 channel dolby B/C type noise reduction system, and its auxiliary circuits.

FEATURES

- Low back form is realized by adopting dual-in-line package. It can be mounted under a cassette mechanical unit.

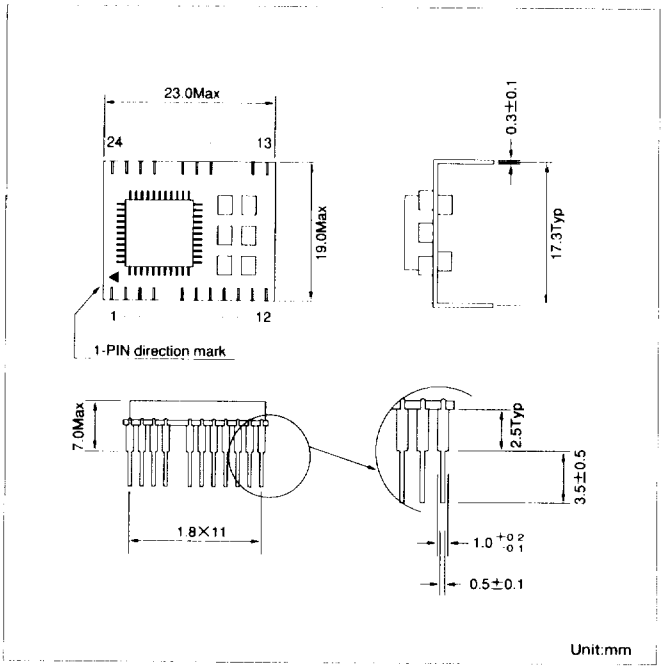
Note) The term "DOLBY" and double D signs are the trademarks of the Dolby Institute. The hybrid IC of this model can be supplied only by manufacturers approved as licensee by the Dolby Institute.

ABSOLUTE MAXIMUM RATINGS

(T_A = 25°C)

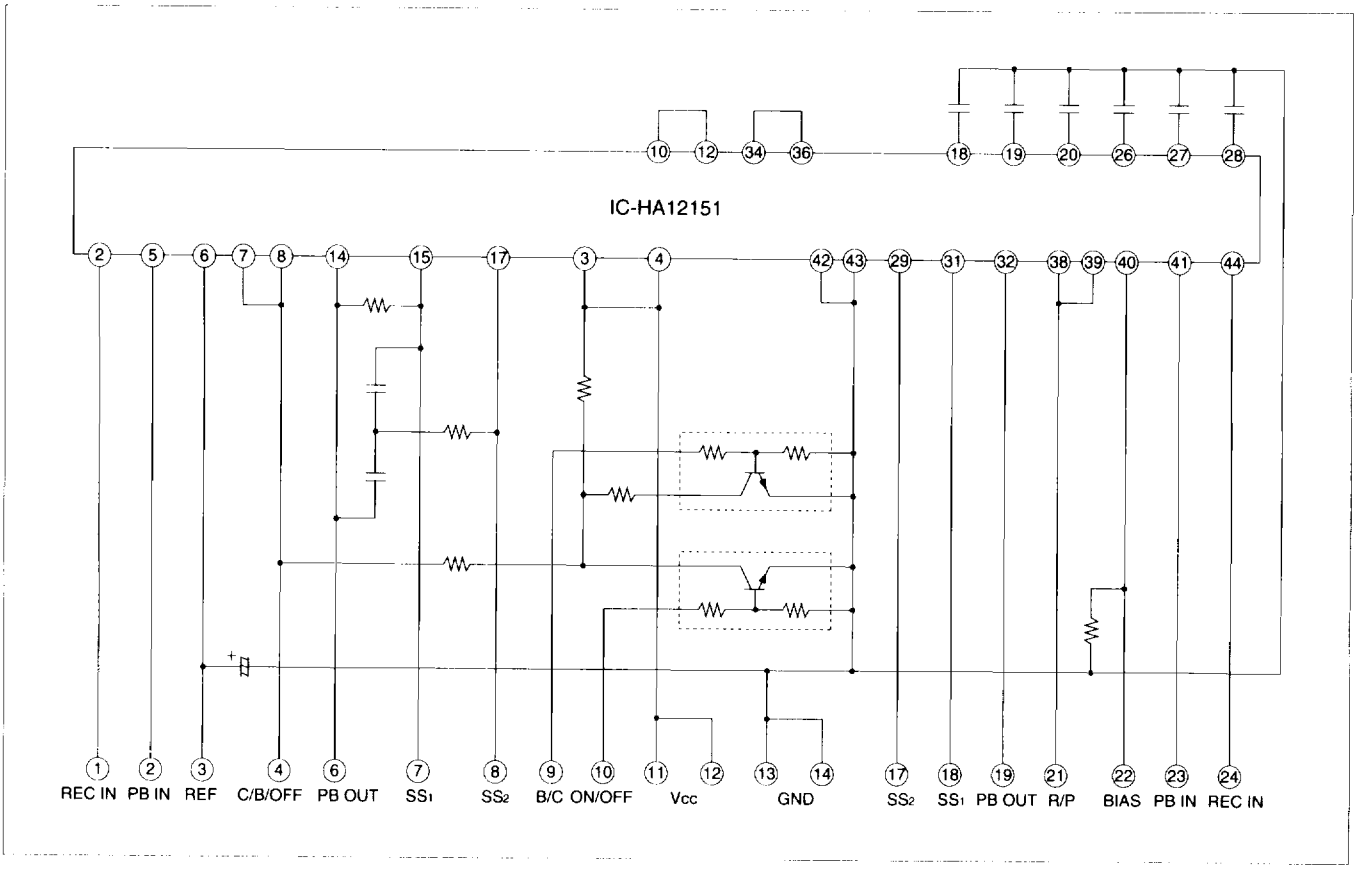
Item	Symbol	Rating	Unit
Supply voltage	Vcc	16	V
Supply current	Icc	30	mA
Power dissipation	P_D	400	mW
Operating temperature	Topr	−40 ~ +85	°C
Storage temperature	Tstg	−40 ~ +85	°C

OUTLINE DIMENSIONS



Unit:mm

INTERNAL CIRCUIT



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ELECTRICAL CHARACTERISTICS

T_A = 25°C, Vcc = 12.0 ± 0.1V, Dolby level Vo = 300mVrms (= 0dB) unless specified.

No.	Item	Symbol	Specifications Min	Typ	Max	Unit	Conditions	P/R	NR	f(Hz)
1	Supply current	Icc		12		mA	Quiescent	P	off	
2	Voltage gain	G_{VP}	18	20	22	dm	Vo = 0dB	P	off	1k
		G_{VR}	15	17	19			R		
3	B-type NR cut	B-1	5.8	4.3	2.8	dm	Vo −20dB	P	B → off	2k
		B-2	−4.7	−3.2	−1.7					5k
4	C-type NR cut	C-1	−7.9	−5.9	−3.9	dB	Vo −20dB	P	C → off	1k
		C-2	−21.6	−19.6	−17.6		Vo = −60dB			
		C-3	−13.6	−11.8	−9.6		Vo = −30dB			700
5	Over load margin	Vo Max	12	13		dB	THD = 1%, Vcc = 7.5V	R	off	1k
6	Signal/noise ratio	S/N		90		dB	Rg = 10kΩ, CCIR/ARM	P	C	
7	Total harmonic distortion	THD_1		0.01		%	30kHz LPF, Vo = 0dB	P	off	1k
		THD_2		0.05					C	
8	Crosstalk CT1 *2	CT		80		dB	DIN-AUDIO, Vo = 0dB	P	off	6k

TEST CIRCUIT