

NJM 2404

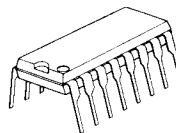
NJM2404 is 3/4 wired remote controller integrated circuit for tape player.

NJM2404 consist of the compartor for 3/4 wired with REF and the section which amplifier and rectifier P.B. Amp. output signal.

■ Absolute Maximum Ratings (Ta=25°C)

Supply Voltage	V ⁺	12V
Input Voltage	V _I	-0.3~+12V
Power Dissipation	P _D	700mW
Operating Temperature Range	T _{opr}	-20~+75°C
Storage Temperature Range	T _{stg}	-40~+125°C

■ Package Outline



NJM 2404 D

■ Electrical Characteristics

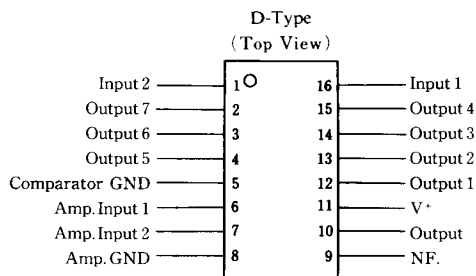
Comparator Section (Ta=25°C, V⁺=10V)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Voltage 1	V _{T1}	R _L =100kΩ, Output Pin 12, Input Pin 16	0.95	1.08	1.34	V
Threshold Voltage 2	V _{T2}	R _L =100kΩ, Output Pin 13, Input Pin 16	2.85	3.10	3.40	V
Threshold Voltage 3	V _{T3}	R _L =100kΩ, Output Pin 14, Input Pin 16	4.98	5.30	5.65	V
Threshold Voltage 4	V _{T4}	R _L =100kΩ, Output Pin 15, Input Pin 16	7.18	7.45	7.77	V
Threshold Voltage 5	V _{T5}	R _L =100kΩ, Output Pin 4, Input Pin 1	6.25	6.55	6.84	V
Threshold Voltage 6	V _{T6}	R _L =100kΩ, Output Pin 3, Input Pin 1	7.45	7.70	7.95	V
Threshold Voltage 7	V _{T7}	R _L =100kΩ, Output Pin 2, Input Pin 1	8.61	8.85	9.11	V
Hysterisis Voltage	V _{TH}	V _T (OFF→ON) - V _T (ON→OFF)	—	0.2	0.4	V
Output Tx. Saturation Voltage	V _{osat}	I _{SINK} =1mA	—	0.2	0.4	V
Output Tx. Leakage Current	I _{OFF}	V _O =10V	—	—	1	μA
Output Tx. Sink Current	I _{SINK}	V _O =1.5V	4	10	—	mA
Supply Current 1	I _{CC1}	R _L =100kΩ, Output OFF (Pin 5)	—	3	5	mA

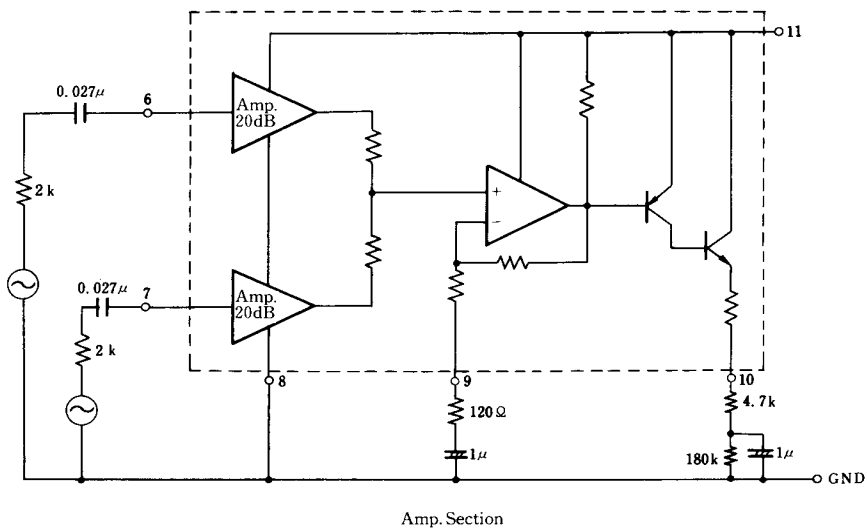
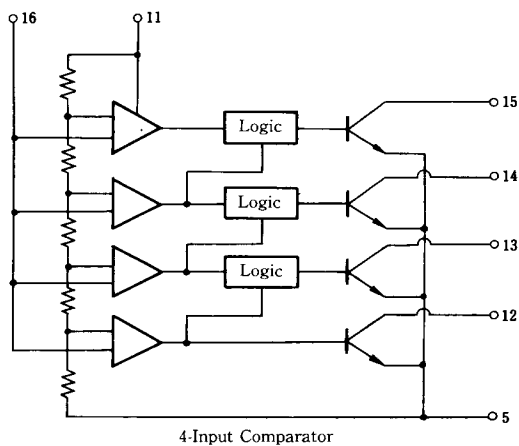
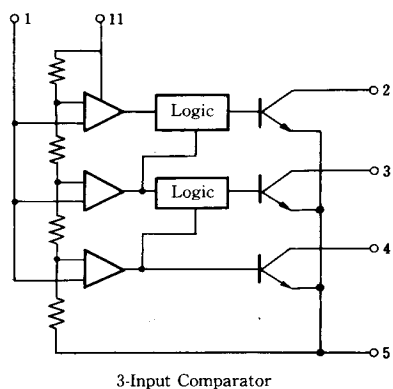
Amplifier Section

Input Resistance	R _{IN}	V _{IN} =10mVrms, f=1kHz	16	24	32	kΩ
Voltage Gain	V _{IN}	V _O =3.5V, f=3kHz	1.03	1.46	2.06	mVrms
Crosstalk	C.R.	V _{IN} =77.5mV, f=1kHz, R _{IN} =2kΩ	—	-90	-70	dB
Supply Current 2	I _{CC2}	No Signal (Pin 8)	—	4	6	mA

■ Connection Diagram

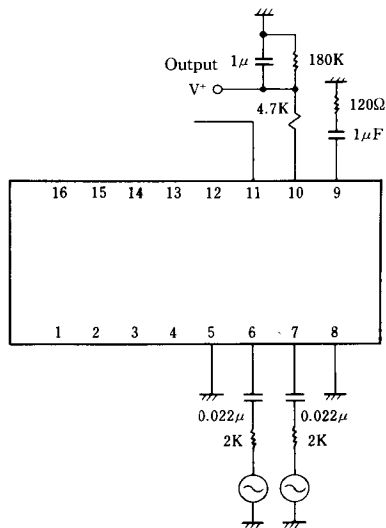
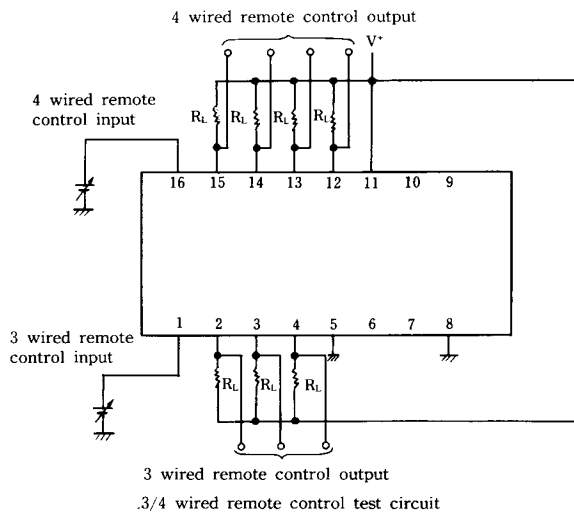


■ Block Diagram



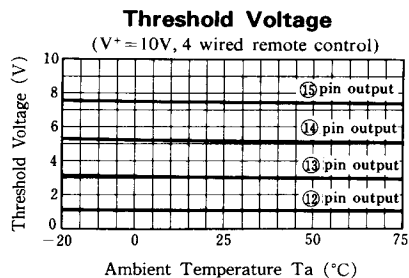
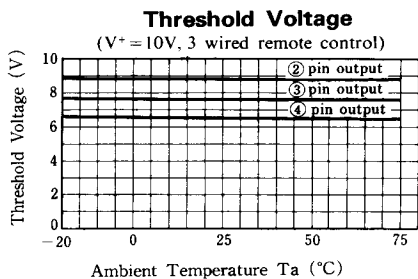
Use the external constant as a measuring constant.

■ Test Circuit

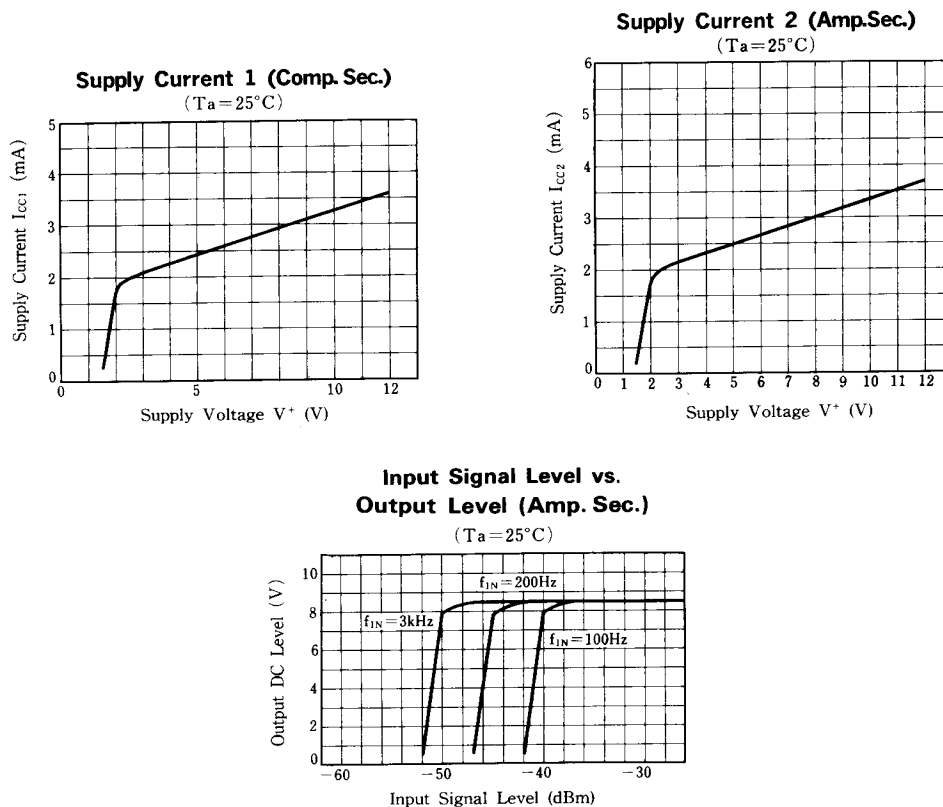


AMS amp test circuit

■ Typical Characteristics



■ Typical Characteristics



■ Typical Application

