

NTE1708 Integrated Circuit TV Tuner Band Selector

Description:

This NTE1708 is a tuner band selector integrated circuit in a 9-Lead SIP type package intended for use in electronic tuning type TV sets. This device outputs supply voltages to the tuner unit according to 2-input band select signals.

Features:

- 2 Inputs, 4 Outputs
- Decoders of 2 Types Available by Changing-Over C Pin.
- Single-Supply Operation (Output Transistor: PNP Type)
- Low Output Saturation Voltage

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum Supply Voltage, $V_{CC\text{max}}$	14V
Maximum Applied Voltage, V_6, V_7	-12V
Maximum Load Current	
$I_{O6\text{max}}(f_1)$	-20mA
$I_{O1\text{max}}(f_2)$	-35mA
$I_{O7\text{max}}(f_3)$	-20mA
$I_{O2\text{max}}(f_4)$	-35mA
Input Current, $I_{IN\text{max}}$	2mA
Allowable Power Dissipation, $P_{D\text{max}}$	400mA
Operating Temperature Range, T_{opr}	-20° to +65°C
Storage Temperature Range, T_{stg}	-55° to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		—	13	18	mA
Output Saturation Voltage			0	—	0.7	V
Input Threshold Voltage	V_{TH}		0.8	1.5	3.0	V
Output Leakage Current	I_6, I_7		—	—	50	μA

Note 1. Current flowing into IC: + (no sign)

Note 2. Current flowing out of IC: —

Truth Table:

Input		Control Pin	Output			
A (Pin3)	B (Pin4)	C (Pin8)	f ₁ (Pin6)	f ₂ (Pin1)	f ₃ (Pin7)	f ₄ (Pin2)
H	H	V _{CC}	Z	Z	Z	H
L	H	V _{CC}	Z	Z	H	H
H	L	V _{CC}	Z	H	Z	Z
L	L	V _{CC}	H	Z	H	H
H	H	Open	H	Z	Z	H
L	H	Open	Z	Z	H	H
H	L	Open	Z	H	Z	Z
L	L	Open	H	Z	H	H

