



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE7065 Integrated Circuit Video/Chroma Deflection System

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

Supply Voltage, V_{CC}	12V
Input Signal Level, e_{in}	$5V_{P-P}$
Horizontal Section Supply Voltage, V_{CCH}	12V
Power Dissipation, P_D	1800mW
Operating Temperatur Range, T_{opr}	-20° to $+65^\circ\text{C}$
Storage Temperatur Range, T_{stg}	-55° to $+150^\circ\text{C}$

DC Voltage and Current Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 9V$, $HV_{CC} = 6.8V$ unless otherwise specified)

Pin No.	Pin Name	Symbol	Test Conditions	Min	Typ	Max	Unit
1	Vertical Height	V_1	Pin2, Pin36 = 6.8V	1.0	1.5	2.0	V
2	Vertical N.F.B.	V_2		-	-	-	V
3	Def GND	V_3		-	GND	-	V
4	Horizontal Sep	V_4		2.5	3.0	3.5	V
5	Vertical Sep	V_5		2.5	3.0	3.5	V
6	FBP Input	V_6		2.5	3.0	3.5	V
7	Horizontal AFC Filter	V_7		1.6	2.1	2.6	V
8	$32f_H$ VCO	V_8		1.5	2.0	2.5	V
9	Horizontal V_{CC}	HI_{CC}		7.5	13.0	17.0	mA
10	Horizontal Output	V_{10}	$I_{10} = 10\text{mA}$	-	0.20	0.30	V
11	X-Ray Protect	V_{11}		-	0	-	V
12	Tint	V_{12}		4.0	4.5	5.0	V
13	Color	V_{13}	Pin15 100k to V_{CC}	4.0	4.5	5.0	V
14	Contrast	V_{14}		4.0	4.5	5.0	V
15	Killer Filter	V_{15}		-	4.0	-	V
16	f_{SC} VCO	V_{16}		2.0	2.5	3.0	V

DC Voltage and Current Characteristics (Cont'd): ($T_A = +25^\circ\text{C}$, $V_{CC} = 9\text{V}$, $HV_{CC} = 6.8\text{V}$ unless otherwise specified)

Pin No.	Pin Name	Symbol	Test Conditions	Min	Typ	Max	Unit
17	f _{SC} APC Filter	V ₁₇		-	3.6	-	V
18	f _{SC} VCO	V ₁₈		-	5.1	-	V
19	GND	V ₁₉		-	GND	-	V
20	R - Y	V ₂₀	Pin24, Pin25 = 4.25V	4.8	5.4	6.4	V
21	G - Y	V ₂₁	Pin24, Pin25 = 4.25V	4.8	5.4	6.4	V
22	B - Y	V ₂₂	Pin24, Pin25 = 4.25V	4.8	5.4	6.4	V
23	- Y	V ₂₃	Pin24, Pin25 = 4.23V	2.5	4.5	6.5	V
24	Clamp	V ₂₄		-	4.23	-	V
25	Brightness	V ₂₅		-	4.23	-	V
26	Bypass	V ₂₆		3.6	4.1	4.7	V
27	V _{CC}	I _{CC}		42	58	84	mA
28	Sync Output	V ₂₈	I ₂₈ = 1mA, I ₄ = -100μA	-	0.1	0.5	V
29	Sync Det Output	V ₂₉	Pin28 = 4.0V	-	9.0	-	V
30	ACC Filter	V ₃₀		-	6.7	-	V
31	Chroma Input	V ₃₁		3.0	3.5	4.0	V
32	Picture Sharpness	V ₃₂		4.3	4.8	5.3	V
33	Differential Input	V ₃₃		2.0	2.5	3.0	V
34	Video Input	V ₃₄		3.4	3.9	4.4	V
35	Vertical Output	V ₃₅	V ₂ = V ₃₆ = 4V	-	1.2	-	V
36	Vertical Ramp	V ₃₆		-	-	-	V



