ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE1415
Integrated Circuit
Color Compensation Circuit

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage ($V_{8–21}$), V_{CC} 14.4V
Power Dissipation, P_D 700mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –20° to +150°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	I_8		20	26	33	mA
	I_{17}		5	12	19	mA
Tint Manual Output Level	$V_{9–2(H)}$		10.3	11.0	11.7	V
	$V_{9–2(L)}$		0.6	1.3	2.0	V
Color Manual Output Level	$V_{20–21(H)}$		9.5	10.2	10.9	V
	$V_{20–21(L)}$		0	–	0.3	V
Tint Auto Output Level	$V_{11–21(H)}$	$V_{CC1} = V_{8–21} = 12V$	9.5	10.2	10.9	V
	$V_{11–21(L)}$		0.4	1.7	2.7	V
Color Auto Output Level	$V_{19–21(H)}$	$V_{CC2} = V_{17–21} = 5.1V$	10.1	10.9	11.7	V
	$V_{19–21(L)}$		0.4	1.8	3.1	V
VIR Detection Level	V_{VR}		0.23	0.28	0.33	V
Tint Manual Coltrol Sensitivity	S_{TM}		0.83	0.94	1.05	times
Color Manual Control Sensitivity	S_{CM}		0.86	0.97	1.08	times
Tint Auto Control Sensitivity	S_{TA}		40	43	46	dB
Color Auto Control Sensitivity	S_{CA}		41.5	44.5	47.5	dB
Tint Preference Control Sensitivity	S_{TP}		–1.5	–1.3	–1.1	times

Pin Connection Diagram





