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NTE1492
Integrated Circuit
TV Video IF Amp

Features:
- Particularly useful in B/W TV's with bipolar tuners
- Low external parts count
- Designed to operate at V_{CC} down to 6.5V
- Video output level stabilized, independent of supply voltage and ambient temperature

Functions:
- Picture IF Amplifier
- Video Detector
- AGC Detector
- Noise Canceller
- Forward AGC
- Sync. Separator

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

Supply Voltage (Note 1), V_{CC} 15V
Max. Input Voltage, V_{INmax} . . . . . $3V_{p-p}$
Video Output Current, I_{11} 3mA
Max. Applicable Voltage
  Pins 3 & 4, V_3, V_4 . . . . . V_{CC}
  Pin 6, V_6 . . . . . 6.3V
Power Dissipation (T_A = 60°C), P_D 850mW
Operating Ambient Temperature Range, T_{opr} . . . . . –20° to +65°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Note 1. Value at t ≤ 60sec. min.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Sensitivity	$V_{i(sens)}$	m = 87.5%	37	42	47	dBμ
Video Output Voltage	V_{out}	V_{in} = $10_m V_{rms}$, m = 87.5%	0.95	1.21	1.47	V_{p-p}
Min. RF AGC Voltage	V_{3min}	V_{in} = 0	1.6	1.8	2.0	V
Max. RF AGC Voltage	V_{3max}	Pin 4 to GND	6.0	7.0	8.0	V
Sync. Separated Output	V_{11}	Vertical Sync. Pulse	9.0	10.3	–	V
Video Band Width	G_W	V_{out} = {f = 6MHz}/V_{out}{f = 100kHz}	–13	–6	–1	dB
Sync. Tip Voltage	V_{sync}	V_{in} = $10_m V_{rms}$	4.64	5.14	5.64	V
Supply Current	I_{CC}	V_{in} = 0	33	41	53	mA

Pin Connection Diagram