

HA11465A

T-74-07-01

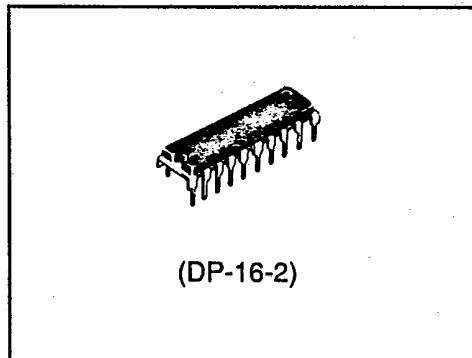
TV Video Amplifier

Functions

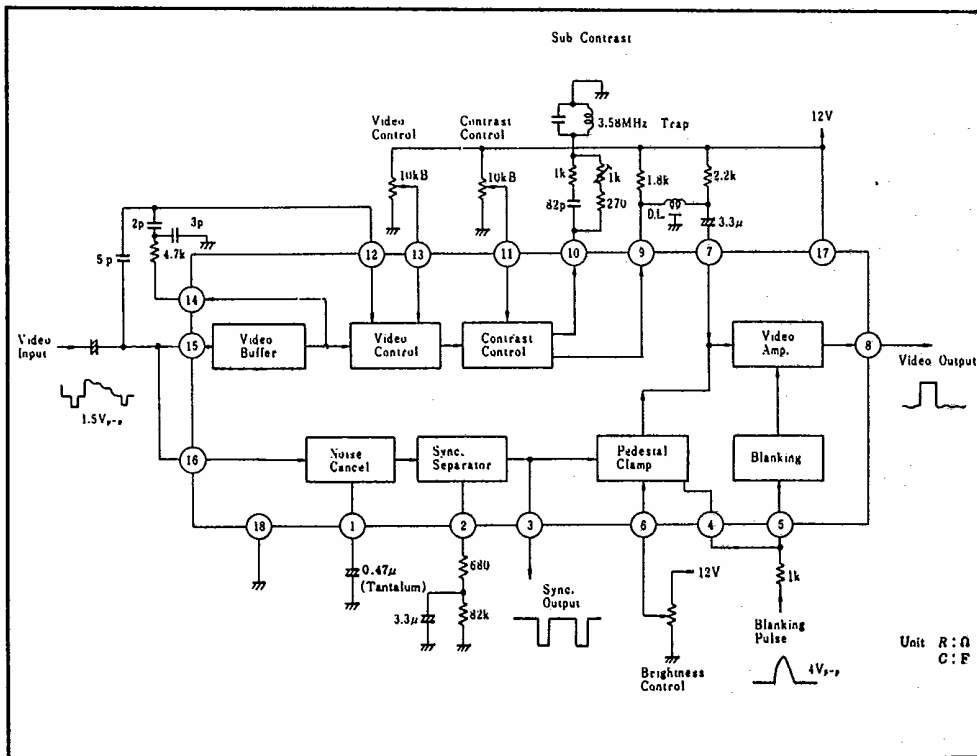
- Video buffer
- Video tone control
- Contrast control
- Sync separator
- Noise canceller
- Pedestal clamp
- Blanking

Features

- DC contrast and video tone control
- Video processing functions provided
- AC coupling of video input
- Low external parts count
- Excellent sync separator
- High performance video tone control using only L, C, and R



Block Diagram and Typical Operating Circuit



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rating	Unit
Supply Voltage	V _{CC}	15	V
Power Dissipation (Ta = 75°C)	P _T	500	mW
Operating Temperature	T _{opr}	-20 to +75	°C
Storage Temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Supply Current	I ₁₇	15.4	18.9	26.3	mA	V _{CC} = 12V
Pin 15 Voltage	V ₁₅	3.30	3.55	3.80	V	
Pin 14 Voltage	V ₁₄	6.50	7.00	7.50	V	
Pin 13 Voltage	V ₁₃	4.51	4.86	5.21	V	
Pin 11 Voltage	V ₁₁	5.62	5.92	6.22	V	
Pin 10 Voltage	V ₁₀	1.75	2.50	3.25	V	
Pin 8 Voltage	V ₈	11.0	11.3	—	V	Blanking period
Chroma Amp Gain	G ₁₅₋₁₄	1.8	2.0	2.2		V ₁₅ = 0.4 V _{p-p} , f = 500 kHz
Contrast Amp Gain	G ₁₅₋₁₀	—	1.03	—		V ₁₅ = 2.0 V _{p-p} , f = 500 kHz, V ₄ = 12
Contrast Amp Gain	G ₁₅₋₁₀	—	0.27	—		V ₁₅ = 2.0 V _{p-p} , V ₄ = 0 V
Video Amp Gain	G ₇₋₈	—	2.6	—		V ₁₅ = 1.5 V _{p-p} , f = 500 kHz

Ordering Information

Type No.	Package
HA11465A	DP-16-2



Typical Performance Curves

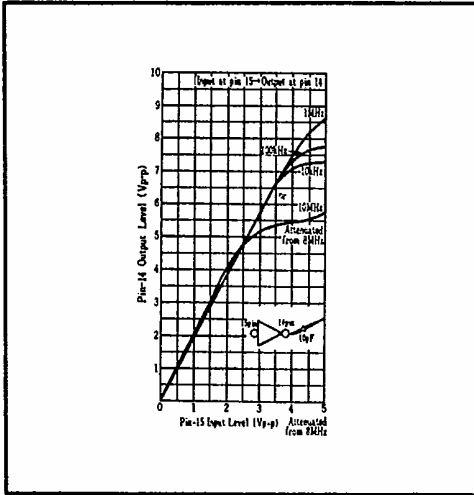


Figure 1 Chroma Amp Input-Output Characteristics

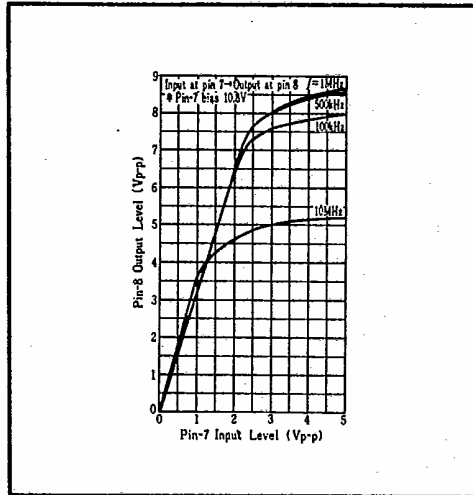


Figure 2 Video Amp Input-Output Characteristics

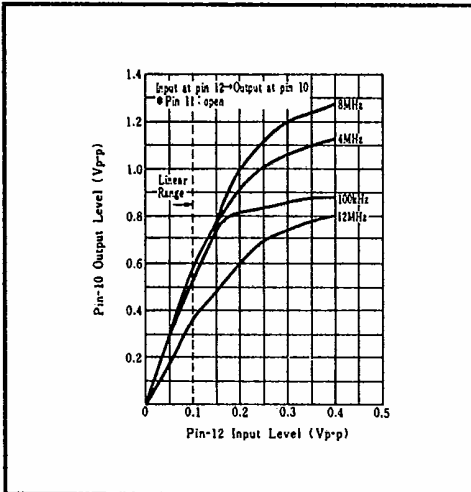


Figure 3 Tone Amp Input-Output Characteristics

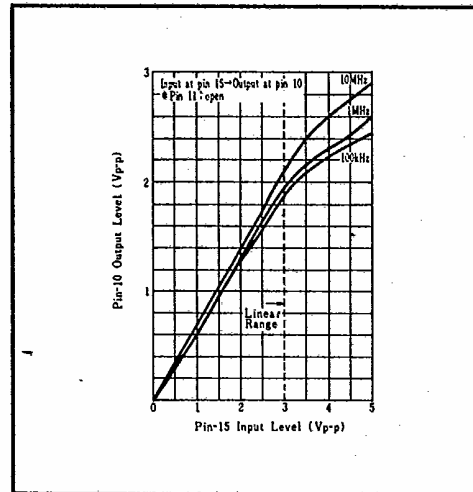


Figure 4 Contrast Amp Input-Output Characteristics



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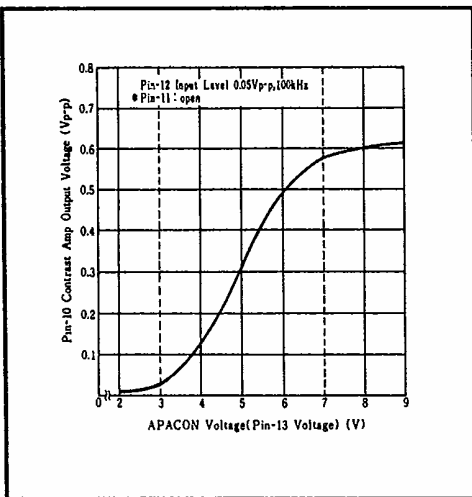


Figure 5 Aperture Control Characteristic

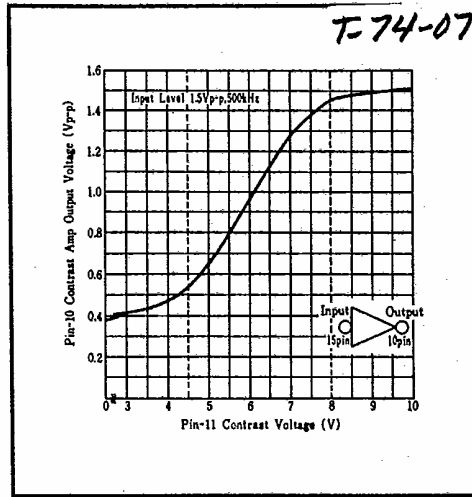


Figure 6 Contrast Control Characteristic



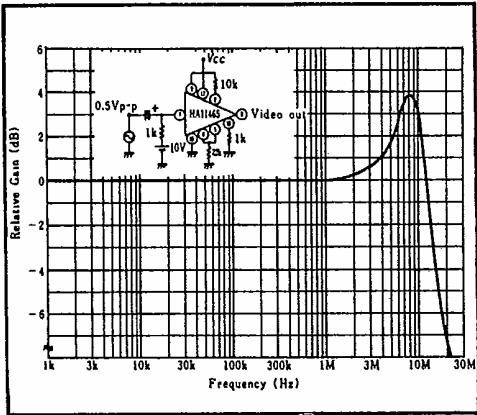


Figure 7 Video Amp Frequency Characteristic

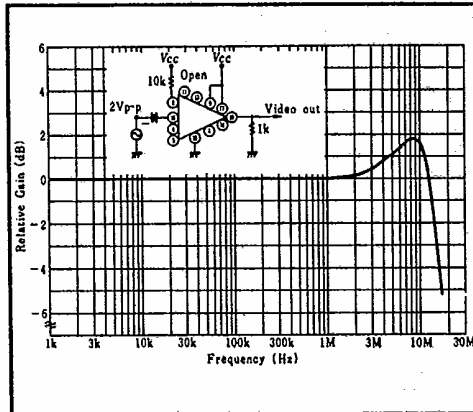


Figure 8 Contrast Amp Frequency Characteristic

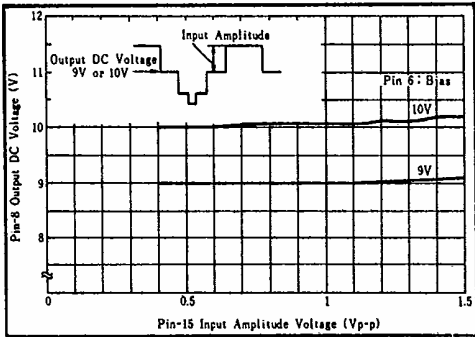


Figure 9 Pedestal Clamp Characteristics



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