HA11732

T-77-17

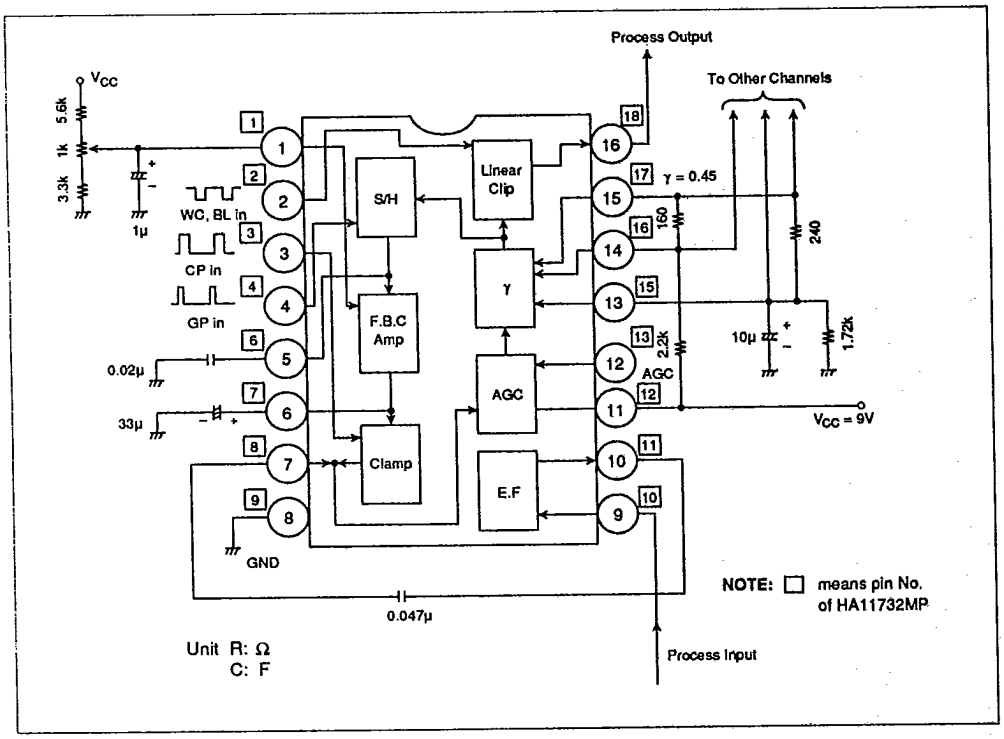
Processor for Video Cameras

HA11732 provides γ correction for the video signal amplified by the preamp, blanking, white clip and black clip.

Features

- Applicable in a wide range of systems, including frequency separation type cameras
- Feedback clamp circuitry ensures stable black levels
- γ can be adjusted within the range of 0.45 to 1.0 by changing terminal voltage
- High pulse input terminal impedance for superior driving

Block Diagram



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Absolute Maximum Ratings

Item		Symbol	Rating	Unit
Supply Voltage		V_{CC}	12	V
Input Voltage	Pins 1, 2, 3, 4, 12	V_{IN}	−0.3 to V_{CC}+0.3	V
	Pins 13, 14, 15		−0.3 to +7	
Power Dissipation*		P_T	550	mW
Operating Temperature		T_{opr}	−20 to +80	°C
Storage Temperature		T_{stg}	−40 to +125	°C

* Value at Ta = 70°C

Electrical Characteristics (V_{CC} = 9V, Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Supply Current	I_{CC}	10.7	15.4	22.4	mA	V_{CC} = 9V
Voltage Gain	G_V	4.5	6	7.5	dB	γ = 1, V_{AGC} = V_{CC}, for rated output voltage
AGC Variable Range	ΔG_{AGC}	6	7	8	dB	γ = 1, V_{AGC} = 0V & V_{CC}
γ Deviation	$\Delta\gamma$	—	—	±1.5	%	γ = 0.45
DC Output Voltage	$E_{O\,(DC)}$	3.35	3.5	3.65	V	V_2 = 0V, V_{13} = 3.5V
Output Impedance	Z_O	—	150	320	Ω	
FBC Amplifier Gain	G_{V3}	23	28	32	dB	
γ Value Variable Range	γ	0.45	—	1		

Ordering Information

Type No.	Package
HA11732	DP-16
HA11732MP	MP-18