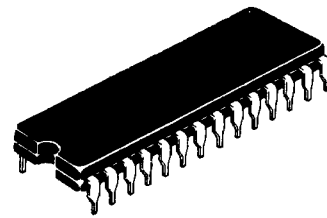


# HA11436

## Color TV Luminance-Chroma System with Auto. Flesh

### FUNCTIONS

- Auto Flesh Control
- Over Load Detector
- Chroma Amp (Peak Detection Type ACC)
- Color Sync (APC)
- Color Demoduration (Color Difference Output)
- Sharpness Emitter Peaking
- Contrast Control
- Pedestal Clamp
- Brightness Control
- Blanking
- Video Output Circuit for VIR Detector
- Over Saturation Preventer

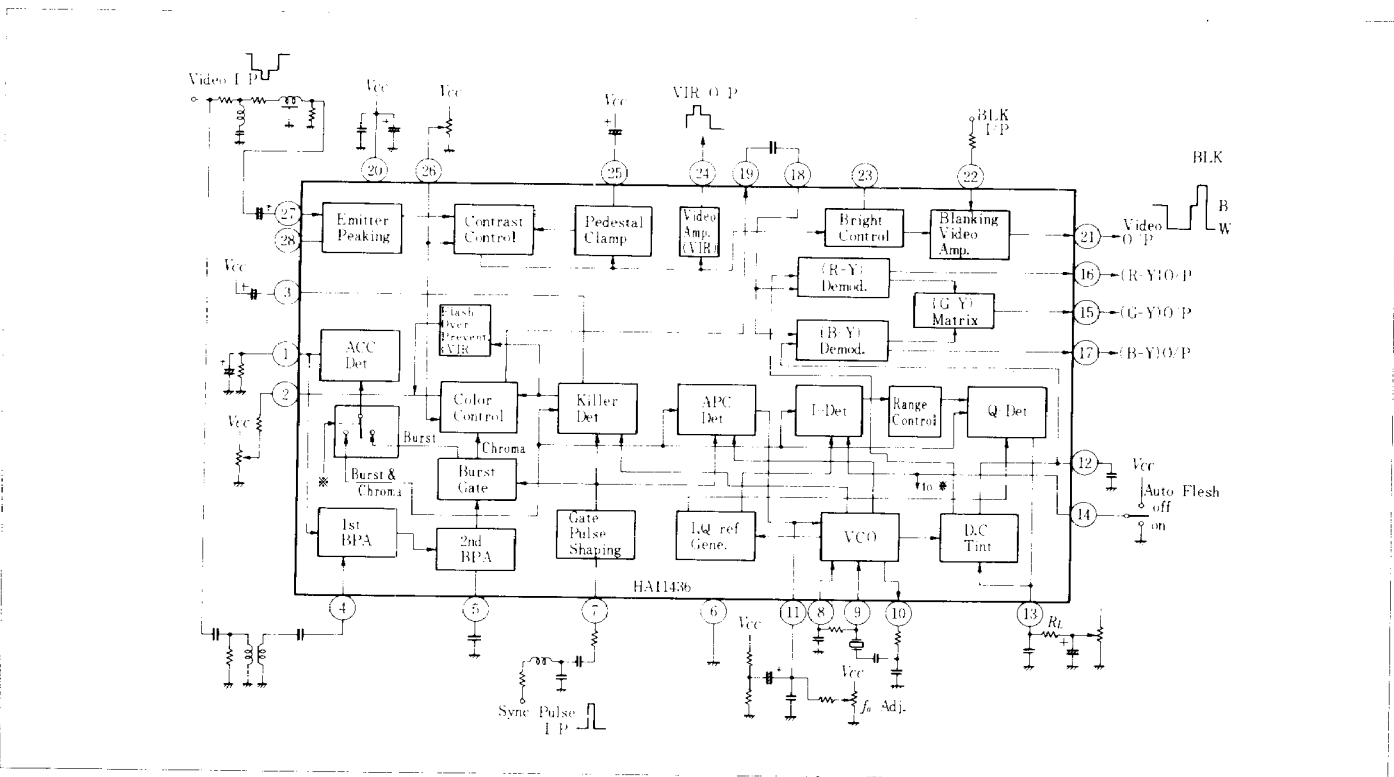


(DP - 28)

### FEATURES

- All functions of luminance and chroma for U.S. field
- Low cost and excellent characteristics for VTR monitors
- Combination with the HA11409 (for VIR) OK
- Demodulation phase adjustable by one external capacitor
- VCO's output frequency adjustable by a variable resistor
- Voltage gain of auto flesh control adjustable externally.
- High Range Tint Control 120 deg. typ.

### BLOCK DIAGRAM



### ABSOLUTE MAXIMUM RATINGS (Unless otherwise specified, $T_a = 25^\circ\text{C}$ )

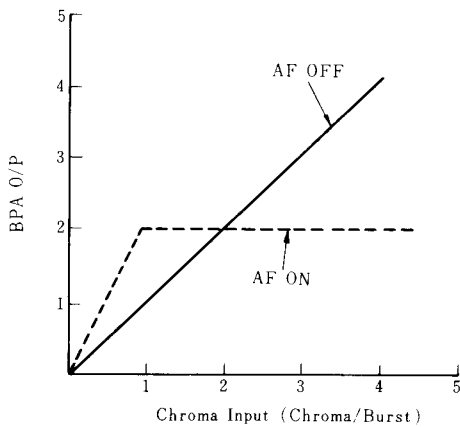
Item	Symbol	Rating	Unit
Supply Voltage	$V_{cc}$	15	V
Power Dissipation ( $T_a = 65^\circ\text{C}$ )	$P_r$ (max)	850	mW
Operating Temperature Range	$T_{opr}$	-20 to +65	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

■ ELECTRICAL CHARACTERISTICS

Item	Symbol	min.	typ.	max.	Unit	Note No.
Max Chroma O/P	$E_C$ max.	0.55	0.67	0.85	V <sub>P-P</sub>	Note 1
ACC Range	$E_s$	0.38	0.55	0.74	V <sub>P-P</sub>	Note 2
Killer Sensitivity	$E_k$	—	-44	—	dB	
Conversion Gain	$G_{R-Y}$	4.5	6.2	—		
Matrix Ratio (1)	$E_{B-Y}/E_{R-Y}$	—	0.8	—		
Matrix Ratio (2)	$E_{G-Y}/E_{R-Y}$	—	0.3	—		
Demodulation Phase $\angle(R-Y)-\angle(B-Y)$		—	115	—	deg	Note 3
Demodulation Phase $\angle(G-Y)-\angle(B-Y)$		—	245	—	deg	
DC Output Voltage	$E_{ODC}$	6.4	7.0	7.6	V	
Difference of DC Output Voltage	$\Delta E_{ODC}$	-0.3	0	+0.3	V	
Video Amp Voltage Gain(1)	$G_V$	10.5	12	13.5	times	
Video Amp Frequency Response	$f_c$	—	6.5	—	MHz	
DC Reproduce		—	75	—	%	
Blanked Output Voltage		11	—	—	V	
Video Amp Voltage Gain (2)	$G_{VIR}$	4.2	5	5.8	times	

- Notes : 1. Input Chroma: B/C=1/1, 100mV<sub>P-P</sub> = 0dB  
 2. Input Level: -20dB  
 3. Adjustable Externally (90° min)

OVER LOAD



AUTO FLESH

