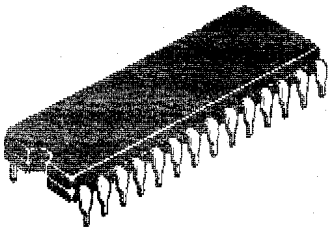
HA11431

—Preliminary

Color TV Luminance-Chroma System

■ FUNCTIONS

- Secondary Differential Sharpness Control on DC
- Contrast Control
- Pedestal Clamp
- Brightness Control
- Blanking
- Chroma Amp (Peak Detection Type ACC)
- Color Sync (APC)
- Color Demoduration (Color Difference Output)

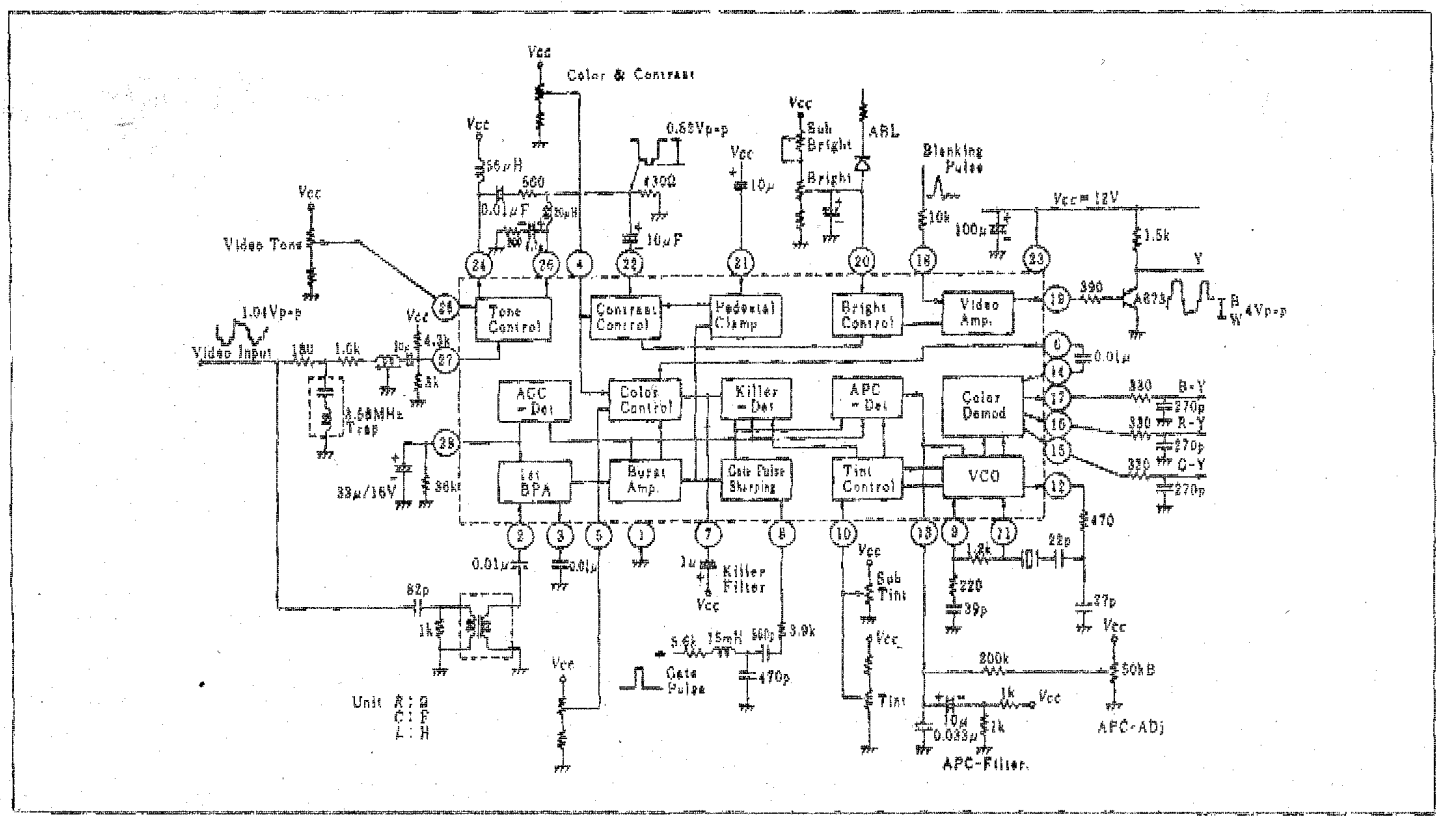


(DP-28)

■ FEATURES

- Secondary Differential Video Tone Control of Current Amplifying Type. Controlled Preshoot and Overshoot Provide Clear Contour Lines. On DC Control
- Internal Blanking Circuit Complete System for Luminance-Chroma Low External Parts Count
- VCO's Output Frequency Adjustable by a Variable Resistor
- Capable to low voltage operation (Vcc=9V)
- Demodulation on Color Difference Applicable for VIR System High Frequency Response of Video Amp (fc=6.5MHz typ)

■ ABC



■ ABSOLUTE MAXIMUM RATINGS (Unless otherwise specified, Ta=25°C)

Item	Symbol	Rating	Unit
Supply Voltage	V_{CC}	15	V
Power Dissipation*	$P_{T\ max}$	850	mW
Operating Temperature Range	T_{opr}	−20 to +65	°C
Storage Temperature Range	T_{stg}	−55 to +125	°C

* Value at Ta=65°C

■ ELECTRICAL CHARACTERISTICS (V_{CC}=12V, Ta=25°C)

Item	Symbol	min.	typ.	max.	Unit	Note
BPA Chroma Max Output Voltage	$E_{C\ max}$	0.54	0.67	0.85	Vp-p	Burst/Chroma=1
ACC Range	E_A	0.38	0.55	0.74	Vp-p	−20dB Input
Killer Sensitivity	E_K	—	−44	—	dB	
Conversion Gain	G_{R-Y}	4.5	6.2	—		
Matrix Ratio (1)	E_{B-Y}/E_{R-Y}	1.05	1.20	1.35		See Below*
Matrix Ratio (2)	E_{G-Y}/E_{R-Y}	0.30	0.40	0.50		
DC Output Voltage	E_{ODC}	6.4	7.0	7.6	V	
Difference of DC Output Voltage	E_{ODC}	−0.3	0	+0.3	V	
Video Amp Voltage Max Gain	G_V	10.5	12	13.5		
Video Amp Frequency Response	f_C	—	6.5	—	MHz	
DC Reproduce		—	75	—	%	
Blanked Output Voltage		11	—	—	V	

Note * ∠(R−Y)−∠(B−Y)=105° typ
Adjustable externally