

■ ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Supply Current	I_{cc}	$V_{cc}=12V$	31	41	59	mA
BPA Chroma Output	E_c	burst : chroma=1:1 burst=90mVp-p	0.77	0.96	1.20	Vp-p
ACC Range	E_a	burst : chroma=1:1 burst=13mVp-p	0.44	0.68	0.95	Vp-p
Killer Threshold	E_k	burst=90mVp-p=0dB	—	-43	—	dB
APC-Det. Detection Sensitivity	μ	gate pulse width=5 μ s	—	16	—	mV/deg.
VCO Control Sensitivity	β		—	5	—	Hz/mV
APC Pull in Range	f_p		± 300	—	—	Hz
Free-Running Frequency	f_o	Gate OFF	-250	0	+250	Hz
VCO Output	V_{cco}	measured at pin 4	—	0.9	—	Vp-p
C-Demod. Maximum Output	E_{bmax}	B-Y output f(beat)=10kHz	3.70	5.1	—	Vp-p
C-Demod. Conversion Gain	G_{r-y}	R-Y output	—	7.8	—	times
C-Demod. Conversion Ratio	$\frac{E_{b-y}}{E_{r-y}}$	B-Y output/R-Y output	—	1.28	—	times
C-Demod. Conversion Ratio	$\frac{E_{g-y}}{E_{r-y}}$	G-Y output/R-Y output at (R-Y)-(B-Y)=105°	—	0.40	—	times
C-Demod. Carrier Leakage	e_{car1}	no signal input measured with 3.58MHz BPF	—	—	0.2	Vp-p
C-Demod. Harmonic Leakage	e_{car2}	1.2Vp-p CW input measured with HPF	—	—	3.5	Vp-p
Color Killer Leakage	e_{k1}	burst : chroma=1:1 rainbow color-bar	—	—	1.25	mVrms
Color Control Leakage	e_{c1}	same as the above	—	—	1.25	mVrms
C-Demod. Output Voltage	E_{odc}	no signal input VCO free runned	6.4	7.0	7.6	V
C-Demod. Output Differential DC Voltage	ΔE_{odc}	same as the above (B-Y)-(R-Y), (R-Y)-(G-Y), (G-Y)-(B-Y)	-0.3	0	+0.3	V
Video Tone Response	A_{5-1}	$f=2MHz/f=100kHz$ at pin 5. $V_8=V_{cc}$, V_4 open	—	8.4	—	dB
Video Tone Response	A_{5-2}	$f=2MHz/f=100kHz$ at pin 5 $V_8=0$, V_4 open	—	0	—	dB
Contrast Amp. Gain	A_{5-3}	$V_{in}=2Vp-p$ at pin 7, $f=100kHz$ $V_6=V_{cc}$, Measured at pin 5	—	1.03	—	times
Contrast Amp. Gain	A_{5-4}	$V_{in}=2Vp-p$ at pin 7 $V_6=0$, $f=100kHz$	—	0.27	—	times
Video Amp. Gain	G_{3-2}	$V_{in}=1.5Vp-p$ at pin 2 $f=100kHz$, Measured at pin 3	—	2.6	—	times