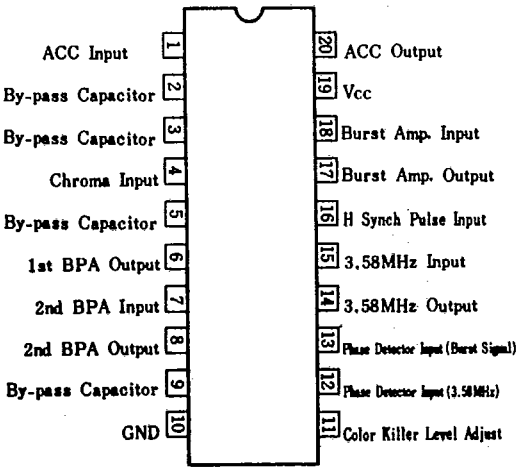
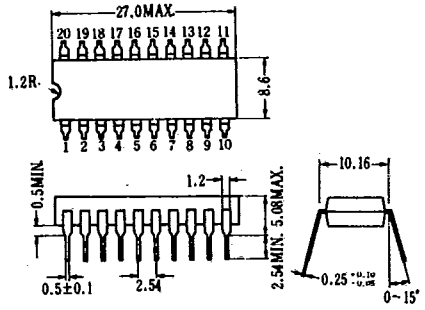
ECG1089

TV COLOR PROCESSOR

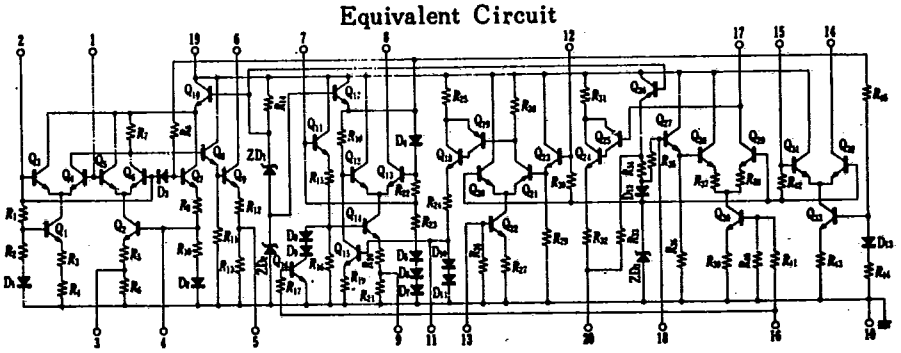
Pin Connection(Top View)



(Dimensions in mm)



Equivalent Circuit



Electrical Characteristics (T_a=25±3°C, V_{CC}=18V)

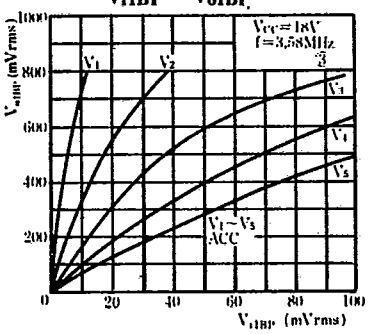
Symbol	Circuit	Test Condition	MIN.	TYP.	MAX.	Unit
I_{CC1}	①		14	19	25	mA
I_{CC2}	①	V_i=200mV$_{P-P}$, 3V$_{P-P}$	15.5	20.5	26.5	mA
A_{v1}	②	f=3.58MHz, V_i=2mVrms, R_L=500Ω	45	50	54	dB
A_{v2}	②	f=3.58MHz, V_i=40mVrms, R_L=1kΩ	17	22	27	dB
A_{v3}	②	f=3.58MHz, V_i=40mVrms, R_L=1kΩ,	18	23	27	dB
A_{v4}	②	f=3.58MHz, V_i=40mVrms, R_L=1kΩ	17	22	27	dB
I_6	①		2.5	4.0	5.5	mA
I_8	①		2.0	3.2	4.5	mA
I_{14}	①		0.5	1.2	2.0	mA
I_{17}	①	16, 3V$_{P-P}$	4.0	6.5	9.0	mA
	③	ACC, V_i 200mV$_{P-P}$, V_o1.2V$_{P-P}$, ACC V_o1.2V$_{P-P}$→0.84V$_{P-P}$, 0dB : V_i= 400mV$_{P-P}$	20	26		dB

Absolute Maximum Ratings (T_a=25±3°C)

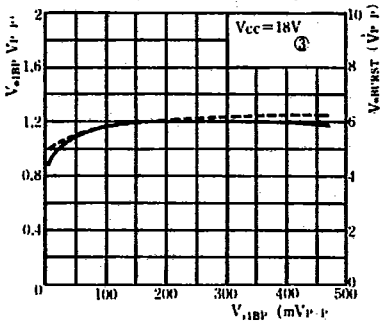
Symbol	Rating	Unit
V_{CC}	22	V
I_{CC}	27	mA
V_{1BP}	5	V$_{P-P}$
V_{2BP}	5	V$_{P-P}$
V_{iBURST}	5	V$_{P-P}$
V_{iBLANK}	4	V$_{P-P}$
V_{iOSC}	5	V$_{P-P}$
P_D(T_a=70℃)	500	mW
T_{opt}	−20～+75	℃
T_{stg}	−40～+125	℃

(T_a=25°C)

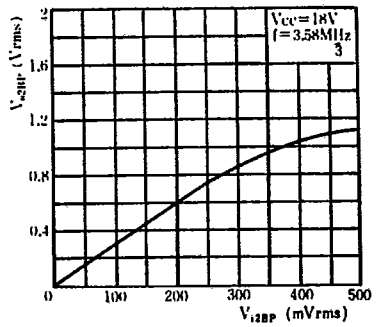
V_{i1BP}—V_{o1BP}



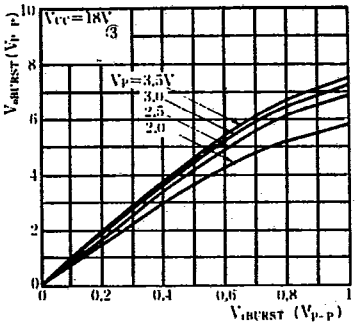
ACC(V_{i1BP}—V_{o1BP}, V_{oBURST})



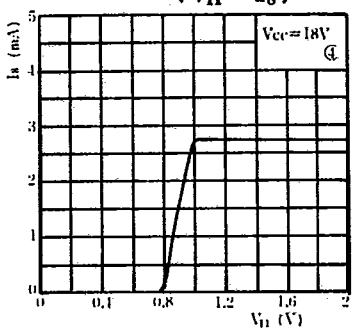
V_{i2BP}—V_{o2BP}



V_{iBURST}—V_{oBURST}



(V_{11}—I_8)



Application