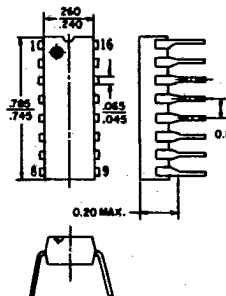




# ECG1159

FOR COLOR DEMODULATOR OF TV

- Includes the functions of tint circuit, color demodulator and DC restorer
- Capable of DC coupling to the output.



Maximum Ratings/ $T_a=25^{\circ}\text{C}$

Symbol	Rating	Unit
$V_D$	22	V
$P_{D\text{ max}}$	$(T_a \leq 65^{\circ}\text{C})$ 500	mW
$T_{opg}$	-20 ~ +85	$^{\circ}\text{C}$
$T_{stg}$	-55 ~ +125	$^{\circ}\text{C}$

Operation Characteristics/ $T_a=25^{\circ}\text{C}$ ,  $V_{CC}=18\text{V}$ ,  $e_r=1V_{p-p}$

Symbol	Test Condition	min.	typ.	max.	Unit
$E_{ODC}$	$e_C=0, e_p=4V_{p-p}$	8.0		9.0	V
$\Delta E_{ODC}$	$e_C=0, e_p=4V_{p-p}$	0		$\pm 0.1$	V
$\Delta E_{ODC(T)}$	$e_C=0, e_p=4V_{p-p}$			40	mV
$E_{ODC}/\Delta T_a$	$T_a=-10 \sim +60^{\circ}\text{C}$	0		$\pm 5$	mV/ $^{\circ}\text{C}$
$\theta_{T(1)}$	$e_C=0, S_1=1$	135		155	deg
$\theta_{T(2)}$	$e_C=0, S_1=2$	+40		90	
$\theta_{T(3)}$	$e_C=0, S_1=3$	-15		5	
$e_{ro}$	$e_C=0$	0.8			$V_{p-p}$
$e_C$	$e_{B-Y}=3V_{p-p}, e_p=0$	150		400	mV $_{p-p}$
$e_{R-Y}$	$e_{B-Y}=3V_{p-p}, e_p=0$	1.8		2.6	$V_{p-p}$
$e_{G-Y}$	$e_{B-Y}=3V_{p-p}, e_p=0$	0.6		0.9	$V_{p-p}$
$e_{B-Y\text{ max}}$	$e_C=1.5V_{p-p}, e_p=0$	6.3			$V_{p-p}$
$\phi_{R-B}$	$e_{B-Y}=3V_{p-p}, e_p=0$	89	95	101	deg
$\phi_{G-B}$	$e_{B-Y}=3V_{p-p}, e_p=0$	-98	-106	-114	deg
$e_{car}$	$e_C=0$ , Filter (680pF)	0		1	$V_{p-p}$

Symbol	Test Condition	min.	typ.	max.	Unit
z <sub>1</sub>	Pin 5, Pin 6		1.9		kΩ
	Pin 5, Pin 6		5.5		pF
	Pin 7		2.1		kΩ
	Pin 7		4.3		pF
z <sub>0</sub>	Pin 11, Pin 13, Pin 15		300		Ω

