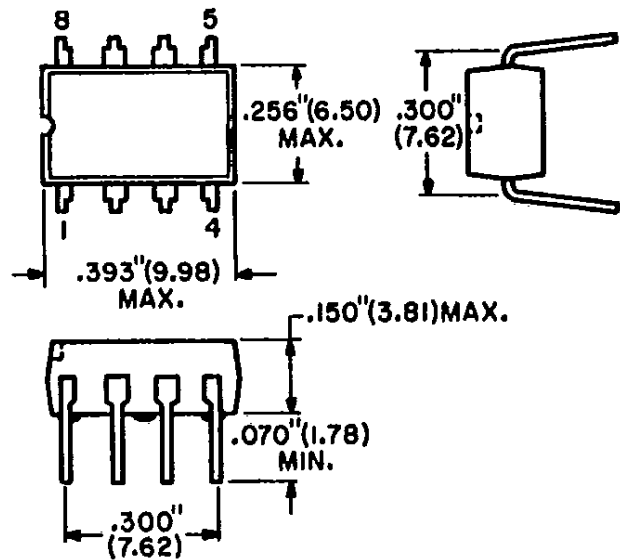
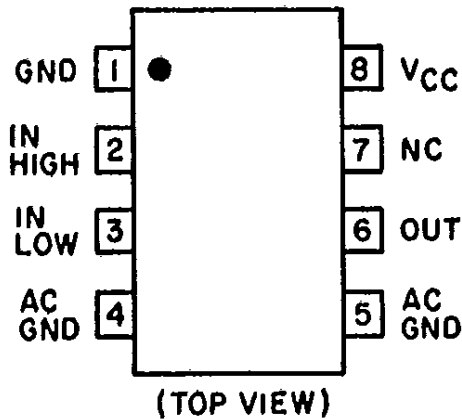


ECG[®]

Semiconductors

ECG1042

3 Stage FM IF Amp



Absolute Maximum Ratings

Characteristic	Symbol	Rating	Unit
Supply Voltage	V_{CC}	20	V
Input Voltage	V_{IN}	± 3	V
Power Dissipation	P_D	300	mW
Operating Temperature	T_{opg}	-20 to +70	$^{\circ}C$
Storage Temperature	T_{stg}	-55 to +125	$^{\circ}C$

Electrical Characteristics ($T_A = +25^{\circ}C$, $V_{CC} = 7.5 V$)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Total Power	P_T	$f = 10.7 \text{ MHz}$	80	--	175	mW
Input Resistance	R_i		--	3.7	--	K Ω
Input Capacitance	C_i		--	9.2	--	pF
Output Resistance	R_o		--	31.5	--	K Ω
Output Capacitance	C_o		--	4.2	--	pF
Voltage Gain	G_v		55	61	--	dB
Input Limit Voltage	$V_i (Lim)$	$V_{CC} = 10 V$, $f = 10.7 \text{ MHz}$	--	300	450	μV

Circuit Schematic

