



ELECTRONICS, INC.
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NTE1494 Integrated Circuit AM radio Receiver System

Features:

- Excellent overload characteristics
- Low harmonic distortion
- Buffered output signal for tuning meter
- Delayed AGC for RF amplifier
- Low noise RF amplifier
- Wide supply voltage range: 9 to 14V

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} 14V
 Power Dissipation, P_T^* 550mW
 Operating Ambient Temperature Range, T_{opr} $-20 \sim +60^\circ\text{C}$
 Storage Temperature Range, T_{stg} $-55 \sim +125^\circ\text{C}$

Electrical Characteristics: ($V_{CC} = 13V$, $T_A = 25^\circ\text{C}$, unless otherwise specified)

Symbol	Test Conditions	Min	Typ	Max	Unit
V_{12}		-	12	-	V
V_1		-	11	-	
V_3		-	11	-	
V_4		-	11	-	
V_2		-	2.8	-	
V_5		-	5	-	
V_6		-	9.4	-	
V_7		-	2	-	
V_8		-	0.92	-	
V_9		-	0.01	-	
V_{10}		-	3.8	-	
V_{11}		-	4.4	-	
V_{13}		-	2.8	-	
V_{15}		-	2.8	-	
V_{14}		-	2.85	-	

Symbol	Test Conditions	Min	Typ	Max	Unit
I_1		-	4	5.5	mA
I_3		-	0.5	0.7	
I_4		-	10	17	
I_{12}		-	8	13.5	
I_o		-	22.5	36.7	

Electrical Characteristics-2: ($V_{CC} = 13V$, $f_o = 1MHz$, $f_m = 400Hz$, 30% mod., $T_A = 25^\circ C$)

Symbol	Test Conditions		Min	Typ	Max	Unit
T.H.D.	ANT. Input = 74dB μ	See Test Circuit	-	0.3	1.1	%
	ANT. Input = 104dB μ		-	0.3	1.1	
V_n	ANT. Input = 34dB μ		-	4	6.2	mV _{rms}
	ANT. Input=74dB μ		-	0.55	1.1	
I_g	ANT. Input=0dB μ		-	10	15	μA
Q.S	(S+N)/N=30dB		-	32	-	dB μ
(S+N)/N	ANT. Input = 60dB μ		-	54	-	dB
	ANT. Input=74dB μ		-	54	-	
V_{in} max	T.H.D. = 1%		-	109	-	dB μ
I_g max	ANT. Input=110dB μ		-	165	-	μA
Tweet Rej.	ANT. Input = 60dB μ	-	32	-	dB	

Pin Connection Diagram

