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## NTE1060 Integrated Circuit AM-RF Amp, Mix/OSC, FM-AM IF Amp

**Description:**

The NTE1060 is an integrated circuit designed for FM/AM radio receiver applications. The AM section consists of an AM-RF amplifier, a frequency converter and an IF amplifier circuit. The FM section has an IF amplifier circuit.

**Features:**

- Improved Stability because the FM and AM Sections are Separated.
- Ceramic Filters can be Connected to the AM & FM Circuits.
- A High Gain RF Amplifier in the AM Section.

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

Supply Voltage,  $V_{CC}$  ..... 9.5V  
 Collector Breakdown Voltage,  $V_{CEX}$  ..... 16V  
 Total Current Consumption,  $I_{tot}$  ..... 40mA  
 Total Power Dissipation,  $P_T$  ..... 400mW  
 Operating Ambient Temperature Range,  $T_{opr}$  .....  $-20^{\circ}$  to  $+75^{\circ}\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-65^{\circ}$  to  $+150^{\circ}\text{C}$

**Electrical Characteristics:** ( $T_A = +25^{\circ}\text{C}$ ,  $V_{CC} = 6\text{V}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Detection Output Voltage AM-IF	$V_{O(AM)}$	$f = 2\text{MHz}$ , $V_i = 40\text{dB}$ , MOD. 400Hz 30%	14.5	30	42	mV
Detection Output Voltage FM-IF	$V_{O(FM)}$	$f = 10.7\text{MHz}$ , $V_i = 40\text{dB}$ , MOD. 400Hz 30%	17	40	76	mV
Total Current Consumption	$I_{tot}$		6	20	40	mA

### Pin Connection Diagram

