



**ELECTRONICS, INC.**  
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## NTE1290 Integrated Circuit AM Tuner for Car Radio

**Features:**

- Complete 1–Chip AM Tuner
- Good High–Input Characteristics Provided with Automatic Dynamic Range Mag. Control at RF State (THD = 1% Typ. at 130dBμ)
- High AGC FOM (63dB Typ)
- Good Usable Sensitivity (23dBμ Typ.)
- Low Distortion (0.4% Typ. at 74dBμ)
- Good Beat Characteristics (3fi beat = 40dB at 108dBμ Input, at fi = 262.5kHz)
- Large Two–Signal Selectivity (55dB Typ. at Desired 54dBμ)
- Cut–Off Pop Noise at Detuning
- Standard Power Supply Voltage Area is 10.8V through 15.6V (13.2V typ) and Local Oscillation Stopping Voltage is Less Than 6V.

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

Supply Voltage,  $V_{CC}$  ..... 16V  
 Power Dissipation ( $T_A = +60^{\circ}\text{C}$ ),  $P_T$  ..... 550mW  
 Operating Temperature Range,  $T_{opr}$  .....  $-30^{\circ}$  to  $+70^{\circ}\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-55^{\circ}$  to  $+125^{\circ}\text{C}$

**Electrical Characteristics:** ( $T_A = +25^{\circ}\text{C}$ ,  $V_{CC} = 13.2\text{V}$ ,  $f_c = 1000\text{kHz}$ ,  $f_m = 400\text{Hz}$ , Output Power of Power Stage 0.5W,  $R_L = 4\Omega$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Current Drain	$I_{CC}$	$V_{CC} = 13.2\text{V}$ at zero signal	–	15	–	mA
Signal–to–Noise Ratio	S/N	Input = 34dBμ, 30% MOD.	25.5	30	–	dB
AGC FOM		Output Base at 74dBμ input, Test at the 10dB output down, 30% MOD.	51	63	–	dB
Total Harmonic Distortion	THD	Input = 11dBμ, 30% MOD.	–	0.4	5	%
Sensitivity		Input at S/N = 20dB, 30% MOD.	–	23	–	dBμ

### Pin Connection Diagram

