

## NTE1002 Integrated Circuit FM IF TV Amp

**Features:**

- Excellent Limiting Characteristics
- High Gain
- High AM Rejection Ratio
- Wide Band Amp

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

Maximum Supply Voltage (Pin8 to Pin7),  $V_{CC}$  ..... 12V  
 Maximum Voltage,  $V_8$  ..... 20V  
 Operating Temperature Range,  $T_{opr}$  .....  $-20^\circ$  to  $+75^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^\circ$  to  $+125^\circ\text{C}$

**Recommended Operation Conditions:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Supply Voltage,  $V_{CC}$  ..... 6V to 10V

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 7.5\text{V}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Power Dissipation	$P_D$	$V_{CC} = 6.0\text{V}$	30	60	108	mW
		$V_{CC} = 7.5\text{V}$	52	98	150	mW
		$V_{CC} = 10\text{V}$	90	155	240	mW
Forward Transadmittance	$ y_f $	$V_{CC} = 7.5\text{V}$ , $f = 10.7\text{MHz}$	55	61	–	dB
Output Saturation Voltage		$V_{CC} = 7.5\text{V}$ , $f = 10.7\text{MHz}$	0.55	1.0	1.4	V
Current at Differential pair	$I_8$		–	1.6	–	mA

**Pin Connection Diagram**  
(Top View)

