

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° to $+75^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° 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)

