



ELECTRONICS, INC.  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>

## NTE1042 Integrated Circuit 3 Stage FM IF Amplifier

**Absolute Maximum Ratings:**

Supply Voltage, $V_{CC}$ .....	20V
Input Voltage, $V_{IN}$ .....	$\pm 3V$
Power Dissipation, $P_D$ .....	300mW
Operating Temperature Range, $T_{opr}$ .....	$-20^{\circ}$ to $+70^{\circ}C$
Storage Temperature Range, $T_{stg}$ .....	$-55^{\circ}$ to $+125^{\circ}C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Power	$P_T$	$f = 10.7MHz$	80	-	175	mA
Input Resistance	$R_i$		-	3.7	-	k $\Omega$
Input Capacitance	$C_i$		-	9.2	-	pF
Output Resistance	$R_o$		-	31.5	-	k $\Omega$
Output Capacitance	$C_o$		-	4.2	-	pF
Voltage Gain	$G_v$		55	61	-	dB
Input Limit Voltage	$V_{i(Lim)}$	$V_{CC} = 10V, f = 10.7MHz$	-	300	450	$\mu V$

**Pin Connection Diagram**

