

## NTE1041 Integrated Circuit FM IF Amplifier

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

Supply Voltage (Note 1),  $V_{CC}$  ..... 16V  
 Power Dissipation,  $P_T$  ..... 300mW  
 Operating Temperature Range,  $T_{opr}$  .....  $-20^\circ$  to  $+70^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  to  $+125^\circ\text{C}$

Note 1. Value at  $V_{EE} = 0V$ .

**Electrical Characteristics:** ( $V_{CC} = 9V$ ,  $T_A = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	$I_T$		1.2	2.2	3.5	mA
Power Consumption	$P_T$		–	50	80	mW
Power Gain	PG	$f = 10.7\text{MHz}$	26	32	–	dB
Muting Attenuation	$M_{att}$		50	62	–	dB
Input Admittance	$Y_{11}$		–	$0.5 + j0.5$	–	mmhos
Reverse Transadmittance	$Y_{12}$		–	$0.01 + j0.0002$	–	mmhos
Forward Transadmittance	$Y_{21}$		–	$-37 + j10.5$	–	mmhos
Output Admittance	$Y_{22}$		–	$0.04 + j0.23$	–	mmhos

### Pin Connection Diagram

