

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° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° 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

