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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° to $+70^{\circ}C$
Storage Temperature Range, T_{stg}	-55° 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 Ω
Input Capacitance	C_i		-	9.2	-	pF
Output Resistance	R_o		-	31.5	-	k Ω
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	μV

Pin Connection Diagram

