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NTE1227 Integrated Circuit FM IF Amp

Features:

- Includes 2 individual differential amps
- Excellent limiting characteristics
- Voltage gain 30dB/R_L = 1kΩ, 1 stage

Absolute Maximum Ratings: (T_A = +25°C, unless otherwise specified)

Supply Voltage, V _{CC}	20V
Output Voltage, V _{CC4} , V _{CC5} , V _{CC7}	20V
Input Voltage, V _{IN1} , V _{IN6}	±3V
Total Dissipation Current, I _{T1} , I _{T2}	28mA
Maximum Input Current, I ₂	±5V
Power Dissipation, P _D	550mW
Operating Temperature Range, T _{opg}	-20° to +75°C
Storage Temperature Range, T _{stg}	-40° to +125°C

Note *. Supplying Voltage without above is inhibited.

Note **. Supplying negative voltage on Pin 3 to Pin 2, 4, 5, 7 or 8 is inhibited.

Electrical Characteristics: (T_A = +25°C, V_{CC} = 12V, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Power Dissipation	P _d		95	138	208	mW
Current Dissipation	I _{CC}		7.9	11.5	17.3	mA
Current at Differential Pair	I ₄ , I ₇		1.33	2.2	3.47	mA
Output Saturation Current	i _{ol} , i _{oll}	f = 10.7MHz	1.24	1.75	2.48	mA
Forward Transadmittance	y _{fl} , y _{fill}		22.4	32	44.6	mS
Parallel Input Resistance	r _{il} , r _{ill}		-	3.5	-	kΩ
Parallel Input Capacitance	C _{il} , C _{ill}		-	8.0	-	pF
Parallel Output Resistance	r _{ol} , r _{oll}		-	50	-	kΩ
Parallel Output Capacitance	C _{ol} , C _{oll}		-	3.0	-	pF

Pin Connection Diagram

