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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

