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NTE1039
Integrated Circuit
FM IF Amplifier

Description:
The NTE1039 is a silicon monolithic integrated circuit designed for use as a FM–IF amplifier. It features the capability of nonsaturating limiter operation with a suitable output load, rendering it ideally adaptable to FM–IF limiter applications.

Applications:
- FM–IF Limiter Amplifiers
- TV Sound IF Amplifiers
- Chroma Reference Oscillators for Color TVs

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)
Supply Voltage, V_{CC} 20V
Input Voltage, V_{IN} . . . . . ±5V
Power Dissipation, P_D 200mW
Operating Temperature Range, T_{opr} . . . . . –30° to +70°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Power Dissipation	P_D		–	110	170	mW
DC Total Current	I_r		5.4	9.15	14.1	mA
Power Gain	PG	f = 10.7MHz	27	31	–	dB
Forward Transadmittance	|Yf|	V_{IN} = 10mV$_{rms}$, f = 10.7Mhz	–	30	–	mhos
Reverse Transadmittance	|Yr|		–	0.002	–	mhos
Input Conductance	gi		–	0.4	–	mhos
Input Capacitance	C_i		–	7.0	–	pF
Output Conductance	g_o		–	0.03	–	mhos
Output Capacitance	C_O		–	2.5	–	pF
Noise Figure	NF	f = 10.7MHz	–	6	–	dB

Pin Connection Diagram