ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE1442
Integrated Circuit
Balance Modulator

Features:
- Broad Band (10MHz), Good Carrier Suppression
- Carrier Suppression Within –40dB (10mV$_{rms}$ to 1V$_{rms}$ Output Signal)

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

Supply Voltage ($V_{8–11}$), V_{CC} 14.4V
Supply Current, I_{CC} 15mA
Power Dissipation, P_D 400mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
DC Current Gain	h_{FE} (T8)		40	100	300	
	h_{FE} (T7)		40	100	300	
Output Offset Current (1)	I_8–I_7		–100	0	100	µA
Output Offset Current (2)	I_8–I_7		–100	0	100	µA
Output Offset Current (3)	I_8–I_7		–100	0	100	µA
Output Offset Current (4)	I_8–I_7		–100	0	100	µA

Pin Connection Diagram





