

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: ($T_A = +25^\circ\text{C}$ 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 $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ 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_{8-17}		-100	0	100	μA
Output Offset Current (2)	I_{8-17}		-100	0	100	μA
Output Offset Current (3)	I_{8-17}		-100	0	100	μA
Output Offset Current (4)	I_{8-17}		-100	0	100	μA

Pin Connection Diagram

