

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 ₈₋₁₇		-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

