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NTE1288 Integrated Circuit Audio Power Amplifier, 10W for Car Radio

Description:

The NTE1288 has improved performance with the same pin configuration as the NTE1232. The additional features of the NTE1232; very low number of external components, ease of assembly, space and cost saving, are maintained. The device provides a high output current capability (up to 3.5A), very low harmonic and cross distortion.

Complete safe operation is guaranteed due to protection against DC and AC short-circuit between all pins and GND, thermal over-range, load dump voltage surge up to 40V, polarity inversion and fortuitous open ground.

Absolute Maximum Ratings:

Peak Supply Voltage (50ms), V_{CC}	40V
DC Supply Voltage, V_{CC}	28V
OPERating Supply Voltage, V_{CC}	18V
Output Peak Current, I_O	
Repetitive	3.5A
Non-Repetitive	4.5A
Power Dissipation ($T_C = +90^\circ\text{C}$), P_{tot}	20W
Operating Junction Temperature Range, T_J	-40° to $+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	3°C/W

Static Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 14.4\text{V}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit
Supply Voltage	V_{CC}	8	–	18	V
Quiescent Output Voltage	Pin4 V_O	6.1	6.9	7.7	V
Quiescent Drain Current	Pin5 I_{CC}	–	44	50	mA

Pin Connection Diagram

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Non-Invert Input — V_{CC}

Invert Input — Output

GND

Dimensions (inches in parentheses):

- Pin 1 to Pin 2: .114 (2.9)
- Pin 2 to Pin 3: .850 (21.6) Max
- Pin 3 to Pin 4: .896 (22.76) Max
- Pin 4 to Pin 5: .135 (3.45)
- Pin 1 to Pin 3: .408 (10.37) Max
- Pin 2 to Pin 4: .619 (15.72) Max
- Pin 3 to Pin 5: .364 (9.25) Max
- Pin 1 to Pin 5: .150 (3.81)
- Pin 2 to Pin 5: .182 (4.62)
- Pin 3 to Pin 5: .182 (4.62) Max