









The TL494 device incorporates all the functions required in the construction of a pulse-width-modulation (PWM) control circuit on a single chip. Designed primarily for power-supply control, this device offers the flexibility to tailor the power-supply control circuitry to a specific application.

Features:

1. Complete PWM power-control circuitry
2. Uncommitted outputs for 200-mA sink or source current
3. Output control selects single-ended or push-pull operation
4. Internal circuitry prohibits double pulse at either output
5. Variable dead time provides control over total range
6. Internal regulator provides a stable 5-V reference supply with 5% tolerance
7. Circuit architecture allows easy synchronization

Specifications:

1. Working voltage: DC 7V-40V
2. Operating frequency 500Hz-100kHz (adjustable R6)
3. Maximum output current: 250mA

4. Output voltage: DC 5V

5. Size: 26 x 23mm

Applications:

1. Desktop PCs

2. Microwave ovens

3. Power supplies: AC/DC, isolated, with PFC, > 90 W

4. Server PSUs

5. Solar micro-inverters

6. Washing machines: low-end and high-end

7. Power supplies: AC/DC, isolated, No PFC, < 90 W

8. Smoke detectors

9. Solar power inverters