TH0110 Programmable DC Voltage Reference

1. Summary

TH0110 is an ultra-precise DC voltage reference with high stability, high accuracy, low temperature drift and small size.

2. Features

- Output voltage range: ± (0 ~ 10 V).
- Reference voltage output: 2.5 V / 4.096 V / 5 V / 10 V
- Typical short-term stability: 0.2 ppm/min
- Resolution: 1 nV (8 bits).

3. Application

- Detect ADC chip linearity
- Calibrate a high-precision DC voltmeter
- Calibrate the digital nanovoltmeter
- Calibrate the potentiometer

4. Specifications

Range	Resolution	Annual uncertainty (k=2). ± (ppm* setpoint + μV).
10 mH	1 nV	15 + 0. 12
1 00m H	10 nV	7.5 + 0.4
1 V	100 nV	5.0 + 0. 7
10 V	1 μV	3.0 + 2.5

- Output range: ± (0 ~ 10 V).
- Manual/automatic shifting, 8-digit display

5. General Specifications

Power supply	Power supply: AC (220 ± 22) V, (50 ± 2) Hz;
Warm-up time	Not less than 1 hour, and the warm-up time again after shutting down in the middle should not be less than 2 times the shutdown time;
Temperature performance	Working temperature: 15 °C ~ 35 °C; Storage temperature: -4 0 °C ~ 50 °C;
Humidity performance	Operating humidity:(0 ~ 90%) R· H @ ≤ 28°C, no condensing; ≤80%R· H @ ≤ (28°C ~ 35°C),no-condensing; Storage humidity: (0 ~ 90%) R· H, no condensing.
Altitude	< 3000 m