

Dr. Frank's LTZ1000 7V / 10V reference

<http://www.eevblog.com/forum/metrology/ultra-precision-reference-ltz1000/msg239666/#msg239666>

Impact of resistor drift (according to data sheet):

R1: 1/100
R2: 1/330
R3: 1/500
R4/R5: 1/100

Impact of resistor drift (according to janaf):

R1: -1/770
R2: -1/250
R3: -1/1400
R4/R5: 1/100

(See <http://www.eevblog.com/forum/metrology/ultra-precision-reference-ltz1000/msg615470/#msg615470>)

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The schematic diagram illustrates the internal circuitry of Dr. Frank's LTZ1000 7V / 10V reference. Key components include:

- LTZ1000A:** Precision voltage reference core.
- LT1013:** Precision op-amp used for buffering and signal processing.
- MAX420:** Precision op-amp used for buffering and signal processing.
- Resistors:** Various precision resistors (R1-R17) are used for current setting and signal conditioning.
- Capacitors:** Various capacitors (C1-C10) are used for decoupling and timing.
- Diodes:** Various diodes (D1-D3, D2) are used for protection and signal conditioning.

The circuit is powered by a 12V supply and includes a 10V reference output and a 10.00000V output. The schematic is labeled with component values and connections.

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