



# REF-110/REF-105/REF-145

+10V/+5V/+4.5V PRECISION  
VOLTAGE REFERENCES

Precision Monolithics Inc.

## ADVANCE PRODUCT INFORMATION

### FEATURES

- **Accurate Output Voltage**
  - REF-110 ..... 10.0V ±5mV
  - REF-105 ..... 5.0V ±2.5mV
  - REF-145 ..... 4.5V ±2.2mV
- **Guaranteed Long-Term Stability**
- **Ultra-Low Drift** ..... 5ppm/°C Max
- **Stable with Large Capacitive Loads** ..... 100µF Min
- **Operates in Series or Shunt Mode**
- **Low Noise, 100% Tested** ..... 4µV<sub>p-p</sub> (0.1Hz - 10Hz)
- **Improved Replacement for LT-1021, REF-01, REF-02, REF-05, REF-10, LM368, MC1400, MC1404**

### APPLICATIONS

- A/D and D/A Converter References
- Biasing and Regulation
- Voltmeters
- Precision Transducer Bridges
- Reference Voltage Standards
- System References

### GENERAL DESCRIPTION

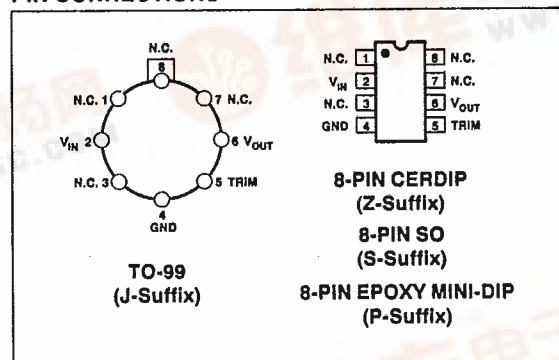
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The REF-110/105/145 series of voltage references provide excellent accuracy, long term stability, and low noise.

Designed with PMI's advanced Bipolar CMOS process, these references maintain superb drift performance of 3ppm/°C maximum over the full military range. All of the ultra-low drift features of the REF-110/105/145 voltage references result in no more than 1/2 LSB of error for 12-bit data acquisition applications. The REF-110/105/145 voltage references can be operated in a series or shunt configuration.

Applications for the REF-110/105/145 voltage references include design upgrades to industry standard band-gap references, high resolution data acquisition systems, portable instrumentation, and weigh scales.

### PIN CONNECTIONS



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VOLTAGE REFERENCES

This advance product information describes a product in development at the time of this printing. Final specifications may vary. Please contact local sales office or distributor for final data sheet.

