

MLX90632

MEDICAL

MINIATURE SMD INFRARED  
(IR) THERMOMETER IC



Pit viper snakes have a cool heat sensing system to find prey in the dark. The pit is a special organ that senses body heats from animals and gives an infrared heat vision which accurately judges distance and size.

## ROBUST TEMPERATURE SENSING FOR MEDICAL APPLICATIONS

### MLX90632

The MLX90632SLD-DCB-000 (medical grade option code) is a miniature SMD thermometer IC for accurate medical grade ( $\pm 0.2$  °C) non-contact temperature measurement, especially in thermally dynamic environments and when available space is limited.

Primary applications for this device can be found in wearable health monitoring applications as well as in forehead and ear thermometers and portable blood diagnosis tools.



## KEY FEATURES

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- ✓ Accurate and stable operation in thermally challenging environments
- ✓ 3x3x1mm QFN package, eliminating the need for bulky TO-can packages
- ✓ Factory calibrated with I2C digital interface, 50° field of view
- ✓ Object temperatures between -20°C and 100°C within -20°C to 85°C operational temperature range can be measured
- ✓ +/-0.2°C accuracy can be obtained in the body temperature region in line with CE/FDA medical standards

