

Global SMD Thermopile Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G418D08F39FEEN.html>

Date: May 2026

Pages: 150

Price: US\$ 4,480.00 (Single User License)

ID: G418D08F39FEEN

Abstracts

The global SMD Thermopile Sensor market size is expected to reach \$ 534 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global SMD Thermopile Sensor production reached approximately 56.02 M Units. The average price is approximately \$7. SMD Thermopile Sensor are infrared sensors that use a surface mount package. Based on the thermopile principle, they convert incident infrared radiation energy into a voltage signal by connecting multiple thermocouples in series to form an array, thereby achieving non-contact temperature measurement or infrared energy detection. These devices are typically integrated into compact surface mount packages (such as LGA, QFN, ceramic SMD, etc.) and can be directly soldered onto PCBs using SMT processes, making them suitable for large-scale electronic manufacturing.

Gross Margin Levels

The gross margin of surface-mount thermopile sensors is generally higher than that of ordinary discrete temperature sensors, but significantly lower than that of high-end cooled infrared focal plane detectors. In industry practice, standard single-point analog products, under high-volume competition, have gross margins of approximately 25%-35%; mid-to-high-end products with ASIC amplification, digital interfaces, factory calibration, narrowband filters, and medical or automotive certifications typically have gross margins of 35%-50%; for multi-pixel arrays, custom NDIR solutions, or small high-value-added modules, gross margins will be even higher. The key to determining the industry's gross margin is not just the MEMS chip itself, but also blackbody calibration, temperature drift compensation, filters, packaging hermeticity, ASIC integration, system calibration, and certification costs. Therefore, this market is essentially not about simply

competing on material costs, but on the comprehensive capabilities of 'devices + algorithms + packaging + calibration.' Official data also shows that leading manufacturers are continuously increasing their investment in ASIC integration, filter combinations, factory calibration, and integrated packaging, which is the core source of the gross margin stratification.

Industry Drivers

The growth of the surface-mount thermopile sensor industry is primarily driven by the long-term demand for non-contact temperature measurement. While the initial surge in body temperature detection following the pandemic has subsided, the medical, home appliance, industrial, and automotive sectors have come to regard 'contactless, low-power, and digitizable' temperature sensing capabilities as standard features, rather than temporary requirements. Secondly, surface-mount (SMD) and high integration are reshaping the competitive landscape. Compared to traditional TO-can, surface-mount packaging is better suited for SMT reflow soldering and large-scale automated assembly, making it easier to integrate into high-volume products such as smartwatches, thermostats, smart locks, air conditioning panels, and EV power modules. Thirdly, building energy efficiency and intelligent HVAC systems provide continuous demand, with thermopile arrays increasingly used for human presence monitoring, occupancy tracking, temperature zone management, and energy-saving control. Simultaneously, NDIR gas detection is also driving demand for dual-channel/multi-channel narrowband thermopile sensors, particularly in CO₂, CH₄, and industrial safety monitoring scenarios. In summary, the core driver of this industry is not just 'temperature measurement,' but an upgrade from single-point temperature readings to 'low-power infrared sensing platforms for smart terminals and industrial systems.'

This report studies the global SMD Thermopile Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SMD Thermopile Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SMD Thermopile Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SMD Thermopile Sensor total production and demand, 2021-2032, (Million Units)

Global SMD Thermopile Sensor total production value, 2021-2032, (USD Million)

Global SMD Thermopile Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global SMD Thermopile Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: SMD Thermopile Sensor domestic production, consumption, key domestic manufacturers and share

Global SMD Thermopile Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global SMD Thermopile Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global SMD Thermopile Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global SMD Thermopile Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Excelitas Technologies, Melexis, Panasonic Industry, OMRON, TE Connectivity, Amphenol Advanced Sensors, Nippon Ceramic, Hamamatsu Photonics, SEMITEC, KODENSHI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SMD Thermopile Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SMD Thermopile Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SMD Thermopile Sensor Market, Segmentation by Type:

Single-Channel Sensor

Dual-Channel Sensor

Global SMD Thermopile Sensor Market, Segmentation by Package Type:

Leadless SMD Package

Leaded SMD Package

Others

Global SMD Thermopile Sensor Market, Segmentation by Technology Type:

MEMS Process Type

Thin Film Type

Thick Film Type

Others

Global SMD Thermopile Sensor Market, Segmentation by Application:

Healthcare

Smart Home

Consumer Electronics

Others

Companies Profiled:

Excelitas Technologies

Melexis

Panasonic Industry

OMRON

TE Connectivity

Amphenol Advanced Sensors

Nippon Ceramic

Hamamatsu Photonics

SEMITEC

KODENSHI

Micro-Hybrid

Oriental System Technology

Senba Sensing

Winsen Electronics

CFSensor

Dexter Research

Key Questions Answered:

1. How big is the global SMD Thermopile Sensor market?
2. What is the demand of the global SMD Thermopile Sensor market?
3. What is the year over year growth of the global SMD Thermopile Sensor market?
4. What is the production and production value of the global SMD Thermopile Sensor market?
5. Who are the key producers in the global SMD Thermopile Sensor market?
6. What are the growth factors driving the market demand?

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