

SiTime SiT8002 – MEMS Oscillator

Reverse Costing Analysis

by System Plus Consulting

Analyze the cost of projects at the R&D level
Enhance the negotiation power of purchasing managers
Benchmark competitor's products

System Plus Consulting is proud to publish the reverse costing report of the MEMS Oscillator SiT8002 supplied by SiTime Corporation.

The SiTime SiT8002 is a one-time programmable 1MHz to 125MHz oscillator. Completely quartz-free, It uses a standard 2.5x2.0mm 4-land MLF-type package containing 2 stacked dies: a MEMS resonator and an ASIC for signal conditioning. The MEMS resonator is manufactured on SOI wafers using MEMS First™ process licensed by Robert Bosch GmbH. The SiT8002 programmable oscillator is suitable for use in clock generation for consumer, portable, industrial, automotive, and computation applications.

This report provides complete teardown of the MEMS Oscillator with:

- Detailed photos
- Material analysis
- Schematic assembly description
- Manufacturing Process Flow
- In-depth economical analysis
- Manufacturing cost breakdown
- Selling price estimation

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System Plus Consulting is specialized in the **cost analysis** of electronics from **semiconductor devices** to **electronic systems**.
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