
Description: Key Features Of The Report:

- Deep insight on technology data and manufacturing processes
- Comparative studies of product features (similarities & differences)
- Key patents related to the target product features per company
- Cross analysis of potential patent infringement risks
- Excel database with all patents analyzed in the report

Objectives Of The Report:

- Find the technical and manufacturing process similarities and differences of S1157, MP45DT01, SR595 and ICS-43432 MEMS Microphones.
- Identify key patents held by Knowles, STMicroelectronics, OMRON, AAC Technologies, Infineon Technologies, Analog Devices and InvenSense, and related to the target product features.
- Find the link between patented technological solutions and marketed products.
- Discover the potential infringing parties and help to find evidence of use.
- Understand potential risks of patent infringement and identify the patents which require a more in depth legal assessment.

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Scope of The Study
Rationales for Choice
Key Features of the Report
Objective of the Report
Terminology for Patent Analysis
Methodology

Company Presentation

Product Presentation

Executive Summary

Teardown: Technology Comparison
Physical Analysis Methodology
MEMS Microphone Comparison
Selection of Product Features to be Analyzed


Matrix  Product Features/Patent Portfolio

Diaphragm Structure
Patent Identification
Patent Infringement Risk
-ST/OMRON MP45DT01 vs Knowles patents
-Knowles S1157 vs OMRON patents

Anti-Sticking Bumps
Patent Identification
Patent Infringement Risk
- Knowles S1157 vs Infineon, OMRON, InvenSense/ADI and AAC patents
- ST/OMRON MP45DT01 vs Infineon, AAC, InvenSense/ADI and Knowles patents
- AAC/Infineon SR595 vs OMRON, InvenSense/ADI and Knowles patents
- InvenSense/Analog Devices ICS-43432 vs Omron, Infineon, Knowles and AAC patents

Acoustic Holes Shape
Patent Identification
Patent Infringement Risk

Transducer, Number & Shape
Patent Identification
Patent Infringement Risk
- Knowles S1157 vs InvenSense/ADI and OMRON patents

Stress Relief
Patent Identification
Patent Infringement Risk
- AAC/Infineon SR595 vs Knowles, InvenSense/ADI patent

Port Structure
Patent Identification
Patent Infringement Risk
- ST/OMRON MP45DT01 vs Knowles and AAC patents

Metal/PCB Housing
Patent Identification
Patent Infringement Risk
- ST/OMRON MP45DT01 vs AAC and Knowles patents

Embedded Capacitance
Patent Identification
Patent Infringement Risk
- Knowles S1157 vs AAC patents
- AAC/Infineon SR595 vs Knowles patents

RF Protection/Shielding
Patent Identification
Patent Infringement Risk
- ST/OMRON MP45DT01 vs Knowles patents
Patent Litigations

Conclusion
Summary of Patent Infringement Risks

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