Delphi Rear and Side Detection System (RSDS): Teardown Analysis

Description: Delphi Rear and Side Detection System is a 76Ghz Single-beam mono-pulse Radar. Its compact design enables a simplified integration in the vehicle. The RSDS offers a broad array of active safety features, as Blind Spot Detection, Lane Change Merge Assit, Rear Cross Traffic Alert and Rear Pre-crash Sensing.

Concerning the radar function, Receiver and Transmitter chips from Infineon using SiGe HBT technology are assembled by wire bonding on the RF Board. The Antenna board uses a PTFE-based substrate and is equipped with planar antennas for transmission and reception of the RF signals. Processing is realized by a Renesas 32-bit MCU and a Texas Instrument Jacinto Processor.

Based on a complete teardown analysis of the Delphi RSDS, the report provides the bill-of-material (BOM) and the manufacturing cost of the system. A physical analysis and manufacturing cost estimation of the Infineon RF chips is available in a separate report, which also includes a comparison with MMICs used in the Bosch MRR1 Radar.

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