3D GLASS MODULES



ED₂ Corporation is an emerging technology company located in Tucson, Arizona, USA.

With decades of research and development into the use of glass as a substrate for electronics, ED2's 3D glass modules are creating paradigm-shifting technology in a variety of markets, including wireless telecom (5G and beyond), space & satcom, medical devices, and radar.

ED2's glass modules offer the highest level of integration with superior electrical performance, ranging from 1 to 100 GHz. The resulting product is cost-efficient, maximizes volume, and is scalable.

Features

- Up to 100GHz
- Smallest feature size (<20µ lines and spaces)
- High Q lumped components
- Low loss tangent
- Naturally hermetic
- Wafer-level process
- RAD hard

Scalable Manufacturing

- 8-inch (200mm) glass wafer fabrication, using standard semiconductor processing equipment.
- Thousands of die on single wafer, chipscale package from 16mm2 down to <1mm2.
- Roadmap to "System-on-Glass." Integrate passives and other structures directly on glass with switches to create ultraminiaturized RF subsystems.

Advanced Glass Packaging Technology™





ED2 mmWave Phased Array Antenna module

ED2 can redesign an existing PCB-based module into a 3D glass package to reduce size and improve performance.

Benefits

- Reuse of functions
- Reduce board complexity to reduce cost
- Reduce discrete parts
- Common footprint
- Reduce overall size (volume)
- Leads to system-on-a-chip (higher level of integration)

Lumped element Bandpass Filter

Building block to the glass modules



Made in USA

v7.0

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