

Abstracts

Development of millimeter wave multi-layer organic based MCM technology

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We present the design and development of multi-layer organic based MCM's for use at millimeter wave frequencies. In this technology, we utilize a multi-layer interconnect using a vertical stacked via process. We experimentally develop and analyze an equivalent circuit model for this multi-layer interconnect to millimeter wave frequencies. We demonstrate that this vertical interconnect has ultra low parasitics and can be used to realize high performance modules at millimeter wave frequencies.

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