Abstracts

AlN HTCC super miniaturized millimeterwave transceiver MCMs, the novel structure for the high reliability, the high performance and the mass productivity

T. Kaneko, H. Watanabe, M. Akaishi and K. Wada. "AlN HTCC super miniaturized millimeterwave transceiver MCMs, the novel structure for the high reliability, the high performance and the mass productivity." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 449-452 vol.2.

NEC has developed a novel structure of millimeterwave multi-chip-modules (MCMs) for the radiocommunications systems based on the aluminum nitride (AlN) high temperature cofired ceramic (HTCC). This package has the LCC and a waveguide I/O structure. We realized both excellent electrical performance and high reliability with more than 10-years of MTTF, for 1.37 inch/spl times/1.37 inch size of the super miniaturized and extremely simplified structure.

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