

Abstracts

20 GHz LTCC Phased Array Module

D. Sturzebecher, J. Leen, R. Cadotte, J. DeMarco, T.-D. Ni, T. Higgins, M. Popick, M. Cummings, B. VanMeerbeke, T. Provencher, B. Kimble, K. Shalkhauser and R. Simons. "20 GHz LTCC Phased Array Module." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 991-994.

A phased array multi-chip module has been developed that supports four, individually-controllable radiating elements with integral five-bit phase shifters and power amplifiers at 20 GHz. LTCC technology has been demonstrated as a valuable substrate/package material, enabling low loss, multi-layer topologies to aid the microwave circuit/package designer in creating unique solutions in three dimensions.

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