

Abstracts

Novel HDI microwave chip on flex (MCOF) broadside coupler designs

R.J. Teti and R.E. Hayes. "Novel HDI microwave chip on flex (MCOF) broadside coupler designs." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1303-1306.

We describe the design, construction and performance of a family of broadside couplers implemented in Lockheed Martin's proprietary High Density Interconnect (HDI) Microwave Chip on Flex (MCOF) technology. Integral realization of these overlay couplers in MCOF is a significant layout advantage and cost reduction of advanced microwave T/R modules, which are at the heart of next generation phased array radars. The couplers exhibit wide bandwidth and an excellent match.

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