Abstracts

Low temperature cofired ceramic (LTCC) ridge waveguide multiplexers

Y. Rong, K.A. Zaki, M. Hageman, D. Stevens and J. Gipprich. "Low temperature cofired ceramic (LTCC) ridge waveguide multiplexers." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1169-1172.

Compact H-plane ridge waveguide multiplexers and their transitions for LTCC applications are described. Full wave modeling based design procedure was developed. X-band single ridge waveguide contiguous diplexers, triplexers and their transitions were successfully designed and embedded in the LTCC substrate. Good experimental results were obtained, which demonstrated feasibility of integrating 3D filtering structure with planar microwave integrated circuits (MIC) in the multilayer substrates.

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