



TECHNOLOGY

Embedded Ridge Waveguide Filters

OVERVIEW

One of the actual requirements for modern communications technology is the need for compactness and reliability of electronic products. In particular the needs of RF/microwave products is of great interest

Researchers at the University of Maryland, Electrical Computer Engineering, and Northrop Grumman Corporation have developed an invention that reduces the size of the microwave filter structure in a form of embedded ridge waveguide using Low Temperature Cofired Ceramics (LTCC). The invention allows planar microwave circuits to be integrated easily into the substrate and provides lower insertion loss and wide band spurious suppression. The current invention can be applied to embedded filter banks for front-end radar receivers and wireless communications

For additional information, please contact the Office of Technology Commercialization, University of Maryland, College Park, MD 20742. TEL: (301) 405-3947, . E-MAIL: otc@umd.edu.

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Additional Information

INSTITUTION

University of Maryland, College Park

PATENT STATUS

Patent(s) pending

LICENSE STATUS

Contact OTL for licensing information

CATEGORIES

- Microelectronics

EXTERNAL RESOURCES

- [US Patent 6,535,083](#)

PS-2000-070