

## Development of integrated three dimensional Bluetooth image reject filter

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A. Sutono, J. Laskar and W.R. Smith. "Development of integrated three dimensional Bluetooth image reject filter." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 339-342.

We present the design and implementation of an S-band compact planar integrated filter integrated in a multi-layer ceramic substrate. The center frequency of the 3.8 mm/spl times/2.4 mm/spl times/0.5 mm front end image reject filter is 2.4 GHz, suitable for use in a Bluetooth wireless LAN transceiver system. Measurement results shows 3 dB insertion loss and 22 dB return loss at the center frequency.

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