

## Theory on rotated excitation of a circular dual-mode resonator and filter

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*I. Awai and T. Yamashita. "Theory on rotated excitation of a circular dual-mode resonator and filter." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 781-784.*

Analysis of a circular dual mode filter without any perturbation in the resonator itself is given, using a branch line model which is generally applicable to all where types of circular resonators. The extended theory for the structure with shunt susceptances to the external circuit is also verified by an experiment on a coplanar ring resonator.

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