

# Abstracts

## A Lumped-Element Circulator on Ceramic Substrates

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*S. Okamura and T. Nagai. "A Lumped-Element Circulator on Ceramic Substrates." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 243-245.*

By mounting a lumped-element ferrite-junction on the ceramic substrate, a small-sized circulator compatible with microwave integrated circuits is obtained. An L-band model with compensating microstrip circuits for broadbanding is also constructed on the one inch square alumina substrate.

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