

Abstracts

High Performance Millimeter-Wave Microstrip Circulator for Deep Space Communcations

J.J. Pan, M. Shih and L. Riley. "High Performance Millimeter-Wave Microstrip Circulator for Deep Space Communcations." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1015-1017.

High performance microstrip circulators have been developed in the Ka-band utilizing new ferrite substrates and temperature stable magnets. A special resonator configuration was analyzed, modeled, and optimized. The circulators have isolation and return loss of greater than 17 dB, and an insertion loss of less than 0.6 dB. Test results indicated almost no performance variations over the temperature range of -30 to +60°C.

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