

Design and measurement of ferrite coupled line circulators

L.E. Davis, K. Xie, B.J. Climer, K.D. Newsome and N.E. Priestley. "Design and measurement of ferrite coupled line circulators." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1153-1156 vol.3.

A four-port axially-magnetized Ferrite Coupled Line (FCL) section has been designed and experimentally tested, and the feasibility of a three-port microstrip circulator using this FCL has been shown. Insertion loss of 1.5 dB and isolation of 20 dB is realised at 6.6 GHz. It is also predicted that performance can be improved by enclosing the magnetized FCL in a small metal tube.

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