

Abstracts

Effective-field theory for ferrite thin-film junction circulator

H. How, S.W. McKnight and C. Vittoria. "Effective-field theory for ferrite thin-film junction circulator." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 1127-1130.

We have calculated the S-parameters and losses in ferrite-film junction circulators using a new effective-field theory assuming TEM-like propagation. Conductivity losses dominate the dielectric and magnetic losses in Y-junction circulators fabricated on ferrite films with thicknesses less than 200 μm .

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