Abstracts

An Experimental and Theoretical Comparison of the Electric Fields Above a Coupled Line Bandpass Filter

T.P. Budka, E.M. Tentzeris, S.D. Waclawik, N.I. Dib, L.P.B. Katehi and G.M. Rebeiz. "An Experimental and Theoretical Comparison of the Electric Fields Above a Coupled Line Bandpass Filter." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1487-1490.

We present an experimental and theoretical comparison of the tangential electric fields within 100 pm above a three stage coupled line bandpass filter (8.0 GHz- 10.5 GHz). Using the experimental technique of modulated scattering, complete electric field intensity images of the tangential electric field components are displayed and compared with the calculated electric fields obtained through the finite difference time domain (FDTD) method in both the passband (10 GHz) and the rejection band of the filter (12 GHz).

❑ Return to main document.