

Abstracts

Model for a Novel CPW Phase Shifter

C.M. Jackson, T. Pham, Z. Zhang, A. Lee and C. Pettiete-Hall. "Model for a Novel CPW Phase Shifter." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1439-1442.

A multilayer CPW phase shifter combining high temperature superconductor and ferroelectric thin films produces 150 degrees of phase shift per cm at 10 GHz with a 30 Volt bias at 60 K. A quasistatic model for the effective dielectric constant and loss tangent is presented and compared with data and commercial software.

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