

Abstracts

Analysis and design of H-plane waveguide bends with compact size, wide-band and low return loss characteristics

Zhewang Ma, T. Yamane and E. Yamashita. "Analysis and design of H-plane waveguide bends with compact size, wide-band and low return loss characteristics." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 417-420.

Accurate and efficient characterization method of compensated H-plane waveguide bends is developed by combining the port reflection coefficient method and the mode-matching method. Convergence properties and reliabilities of the obtained numerical results are verified. Variations of the return loss of three types of compensated bends are investigated with various compensation dimensions. Wide-band and low return loss bends with the obtained optimal compensation dimensions are fabricated and tested, and the measured results agree well with the theoretical predictions.

[Return to main document.](#)

Click on title for a complete paper.