

Abstracts

A novel wideband TM₀₁-to-TE₁₁ mode converter

R.L. Eisenhart. "A novel wideband TM₀₁-to-TE₁₁ mode converter." 1998 MTT-S International Microwave Symposium Digest 98.1 (1998 Vol. I [MWSYM]): 249-252.

A novel, state-of-the-art design is presented for a TM₀₁-to-TE₁₁ circular waveguide mode convertor, providing over 30% bandwidth of extraneous-mode-free operation at a conversion loss of less than 0.5 dB. The design philosophy is based upon the unique use of two intermediate modes, a coaxial TEM and a rectangular waveguide TE₁₀, which provide input-output isolation of the converted modes.

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