Abstracts

Phase Shift Characteristics of Dielectric Loaded Waveguide

G.F. Bland and A.G. Franco. "Phase Shift Characteristics of Dielectric Loaded Waveguide." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 112-118.

An investigation of waveguide phase shifting techniques was conducted recently for the purpose of establishing the design criteria of a device capable of meeting the following electrical specifications: a phase shift variable over minimum range of 360° and a maximum phase slope (or deviation) of 5° at any phase setting over at least a 10 per cent frequency band width. Mechanical simplicity, low insertion loss, rugged construction and small size are also essential characteristics.

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