

Abstracts

Modeling of the Apparent Characteristic Impedance Finned-Waveguide and Finlines

P. Pramanick and P. Bhartia. "Modeling of the Apparent Characteristic Impedance Finned-Waveguide and Finlines." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 225-228.

This paper models the apparent characteristic impedance of finned-waveguide and finline from the standpoint of per unit length capacitance obtained from conformal-mapping and the cutoff wavelength, without going into the controversy of definition. The model strongly supports the power/voltage definition. Closed-form synthesis equations have also been derived.

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