

Abstracts

Impedance Relations in a Diode Waveguide Mount (Correspondence)

B.B. van Iperen. "Impedance Relations in a Diode Waveguide Mount (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.11 (Nov. 1968 [T-MTT]): 961-963.

An improved relation has been derived between the microwave impedance of a packaged solid-state diode in a waveguide mount and the impedances measured at the waveguide terminals. This is accomplished by taking into account the lowest noncircumferential radial-line transmission mode at the diode reference surface. A practical example shows that ignoring this mode may cause substantial errors in measuring the impedance of packaged diodes.

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