

Reactance of Slotline Short and Open Circuits on Alumina Substrate (Short Papers)

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Resonant techniques have been employed in order to determine the equivalent normalized reactance of slotline planar short circuits and open circuits realized on alumina substrates. Data for slotline short circuits are presented in a graph covering a wide range of normalized slot widths. Characteristics of several slotline open circuits are given demonstrating their resonant behavior and the resulting bandwidth limitation. As an example of an application, the design of broad-band microstrip-slotline transitions employing experimentally characterized slotline open circuits is outlined.

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