

Abstracts

A reduced surface-wave twin arc-slot antenna for millimeter-wave applications

M.A. Hickey, Meide Qiu and G.V. Eleftheriades. "A reduced surface-wave twin arc-slot antenna for millimeter-wave applications." 2001 Microwave and Wireless Components Letters 11.11 (Nov. 2001 [MWCL]): 459-461.

A simple, uniplanar, reduced surface-wave twin arc-slot antenna element for millimeter-wave (mm-wave) integrated circuit antenna systems is presented. This design allows for almost complete surface-wave cancellation and resonance to be achieved simultaneously. Measured far-field radiation patterns on an electrically thick substrate are in very good agreement with theory and show little evidence of surface-wave propagation.

[Return to main document.](#)