

Abstracts

A Scheme to Lower the Resonant Frequency of the Microstrip Patch Antenna

*J.L. Volakis and J.M. Jin. "A Scheme to Lower the Resonant Frequency of the Microstrip Patch Antenna." 1992 *Microwave and Guided Wave Letters* 2.7 (Jul. 1992 [MGWL]): 292-293.*

Simple schemes are presented for lowering the resonant frequency of the rectangular patch antenna without changing its size. In particular, by placing a perturbation below the patch it is shown that as much as 30 percent decrease from the resonant frequency of the unperturbed patch can be achieved. The specific configurations considered include a cavity-backed and an aperture-backed patch and for each case design curves are presented.

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