Abstracts

Optimization and miniaturization of a filter/antenna multi-function module using a composite ceramic-foam substrate

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In view of optimizing a CPW-fed microstrip patch antenna, a composite ceramic-foam substrate is investigated. Using a global synthesis technique, a multilayer multitechnology miniature band-pass filter is integrated on the back-side ceramic while a microstrip patch is laid down on the upper foam dielectric. This combination leads to an efficient and compact multi-function module.

❑ Return to main document.