

## Documents

Morsy, M.M., Gorla, H.

**Miniaturized wide-band dielectric resonator antenna for ISM applications**

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**Abstract**

A new design of a miniaturized wide-band dielectric resonator antenna(DRA) at 2.45GHz is presented. The design employs two different techniques for widening the band width and miniaturizing the total size of the designed DRA. By suspending the dielectric resonator over a ground plane, we are able to increase the 10dB operating bandwidth of DRA to 34%. And by constructing a conducting wall on one side of the DRA, the total volume of the DRA antenna is reduced to 1.2×0.8×1.9cm<sup>3</sup>. Parametric studies and systematic analysis are used to reach the optimized design. © 2014 IEEE.

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