

Active Aperture-Coupled Rectangular Dielectric Resonator Antenna

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A novel configuration of an active aperture-coupled dielectric resonator antenna is reported, The design methodology is discussed and experimental results in the frequency range 4-6 GHz are presented. A comparison between an active aperture-coupled dielectric resonator antenna and an active aperture-coupled microstrip patch antenna is presented. The results presented should have useful potential applications in phased arrays and communication systems.

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