

# Abstracts

## The dielectric resonator power combiner oscillator: a new design for micro- or millimeter-wave development

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A.A. Sayyah and D.W. Griffin. "The dielectric resonator power combiner oscillator: a new design for micro- or millimeter-wave development." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1589-1592.

Field effect type transistor oscillators are formed on the surface of a shielded rectangular dielectric resonator and synchronised via the dielectric LSM-mode resonance. Their combined outputs are coupled via a monolithic-compatible structure into a standard output line or guide. Measured DC-to-RF conversion efficiencies up to 35% validate the new concepts and design method.

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