

## Whispering Gallery Dielectric Resonator Modes for W-Band Devices

---

*D. Cros and P. Guillon. "Whispering Gallery Dielectric Resonator Modes for W-Band Devices." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1667-1674.*

This paper discusses the utilization of planar millimeter-wavelength whispering gallery dielectric resonator modes for the design of W-band directional filters and power combiners. Various advantages of these resonator modes allow their utilization in the millimeter-wavelength range. The analysis based on the ring resonator model makes it possible to predict the theoretical responses of any devices. Finally, experimental results obtained for directional filters and for power combiners in W-band are given.

 [Return to main document.](#)