

# Abstracts

## Mode 1 and Mode 2 Designs for 94-GHz Microstrip Circulators

---

*A.M. Borjak and L.E. Davis. "Mode 1 and Mode 2 Designs for 94-GHz Microstrip Circulators." 1993 *Microwave and Guided Wave Letters* 3.9 (Sep. 1993 [MGWL]): 310-312.*

Details are given of two theoretical designs for a 94 GHz ferrite circulator in a quartz substrate, based on circulation modes 1 and 2, and their predicted performances are described. The 15-dB isolation bandwidths are 8 GHz and 3 GHz, respectively. The narrower bandwidth design has a larger ferrite radius, and this may provide some mechanical advantages in manufacturing. Other comparisons are made.

[Return to main document.](#)