Abstracts

Quasi-Optical Ferrite Rotator for Millimeter Waves

G.F. Dionne, J.A. Weiss, G.A. Allen and W.D. Fitzgerald. "Quasi-Optical Ferrite Rotator for Millimeter Waves." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 127-130.

A nonreciprocal 45-degree Faraday rotator has been developed for use in optical beams at 35 GHz. In laboratory demonstrations, an effective isolation greater than 40dB and an insertion loss considerably less than 0.1 dB over a frequency band from 32 to 39 GHz (~ 20 %) have been measured.

❑ Return to main document.