

Abstracts

A broadband heterodyne measurement setup for active millimeter wave integrated antennas

R.H. Rasshofer, A. Stiller, M.O. Thieme, H. Schulz and E.M. Biebl. "A broadband heterodyne measurement setup for active millimeter wave integrated antennas." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1459-1462.

A novel heterodyne measurement setup for the characterization of circularly or elliptically polarized active millimeter wave antennas is presented. The major advantages of this setup are a very broad bandwidth from 75 to 110 GHz, a dynamic range of more than 50 dB and a cross-polarization purity of about 30 dB. This setup has been applied to characterize a circularly polarized active patch antenna. Numerically calculated and measured results of the antenna performance are compared.

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