

Abstracts

A Wide-Band Rotating Coupler for VHF Use (Short Papers)

C.W. Allen and H.L. Krauss. "A Wide-Band Rotating Coupler for VHF Use (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.5 (May 1976 [T-MTT]): 267-269.

A device which transmits wide-band signals in the VHF range across a rotating structure is described. It has potential application to rotating antenna systems and to telemetry systems between stationary and rotating elements. No electrical contact is necessary between the stationary and rotating terminals, and bandwidths on the order of 1000:1 are feasible. From the theoretical analysis given here, predicted device behavior agrees well with measurements on a prototype model.

 [Return to main document.](#)