

Abstracts

Recent Developments in the Average Power Capacity of Rotary-Field Ferrite Phase Shifters

W.E. Hord. "Recent Developments in the Average Power Capacity of Rotary-Field Ferrite Phase Shifters." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1385-1388.

An air-cooled experimental S-band rotary-field ferrite phase shifter with an average power capacity of 3 Kilowatts is described. The increase in average power capacity was achieved without noticeable degradation of r-f performance. An equivalent circuit model for thermal analysis is developed. The model parameters are determined by r-f and temperature measurements. The parameters are compared with those of a conventional rotary-field phase shifter.

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