Abstracts

A Switching Circulator: S-Band; Stripline; Remanent; 10 Kw; 10 Microsecond; Temperature-Stable

F. Betts, D.H. Temme and J.A. Weiss. "A Switching Circulator: S-Band; Stripline; Remanent; 10 Kw; 10 Microsecond; Temperature-Stable." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 275-280.

This paper reports the development of a ferrite circulator-switch suitable for time delay switching applications in phased array radars. The requirements are high speed and minimum switching energy, combined with good isolation and match, and low insertion loss, over a moderate band. Stability of transmission phase against temperature variations is an important requirement, especially in large arrays. Data will be reported here on design considerations, performance, and methods of measurement.

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