

Abstracts

A 500 kW X-Band Air-Cooled Ferrite Latching Switch (1968 [MWSYM])

R.A. Stern and J.P. Agrios. "A 500 kW X-Band Air-Cooled Ferrite Latching Switch (1968 [MWSYM])." 1968 G-MTT International Microwave Symposium Digest and Technical Program 68.1 (1968 [MWSYM]): 1034-1037.

This paper describes the development of a high peak and average power X-band latching SPDT switch for use in antenna switching or energy transfer switching applications. The switch is capable of handling 500 kW peak and 666 W average power levels with external forced air cooling. It is of the differential phase shift circulator type employing a folded magic T, a short slot hybrid and two nonreciprocal 90° ferrite latching phase shifters in RG-51/U waveguide.

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