

Abstracts

A Mono-Control Microwave Semiconductor Switch

J.C. Hoover. "A Mono-Control Microwave Semiconductor Switch." 1964 PTGMMT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 204-208.

The circuit shown in Fig. 1 has the useful property that the impedance looking into the input remains matched if the two outputs are terminated in matched loads regardless of the value of Z , whether it be reactive, real or even negative. This statement is conditional on the requirement that the value of Z be identical in two locations. The division of power to the two outputs is not independent of Z but is controlled by it. Obviously, if Z is reduced to zero, output #1 will be shorted out and no power will appear at that port. In the converse, if Z is infinite, output #2 is shorted out by the open-circuited quarter-wavelength stub.

[Return to main document.](#)