

Abstracts

A 35 GHz Latching Switch (1966 [MWSYM])

W.C. Passaro and J.W. McManus. "A 35 GHz Latching Switch (1966 [MWSYM])." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 270-274.

This paper describes the development of a lightweight fast-switching 35 GHz latching ferrite circulator, with an instantaneous bandwidth of 5%, and a switching time of less than 0.30 microseconds. The device is designed for use over the temperature range of -60° C to +100° C under dynamic operating conditions. It is particularly well suited for use as a switching element in those applications where high reliability, small size and weight, and fast switching time are required. Total weight of the device (excluding electronic driver) is less than 0.6 ounces, and total volume is less than 0.75 cubic inch. The unit is pictured in Figure 1.

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