

Abstracts

A 7 Gc Narrow-Band Waveguide Switch Using PIN Junction Diodes

H.J. Peppiatt, A.V. McDaniel, Jr. and J.B. Linker, Jr.. "A 7 Gc Narrow-Band Waveguide Switch Using PIN Junction Diodes." 1964 PTGMMT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 193-198.

A narrow-band waveguide switch has been designed in WR-137 waveguide which will handle a power level in excess of 8 watts. When passing a signal, this switch has an insertion loss of less than 0.5 db, but when it is "turned off" it has an insertion loss of greater than 80 db over a minimum bandwidth of 10 Mc. The switch is designed using PIN junction diodes in band elimination filter sections.

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