Abstracts

High Power Broadband, 35 GHz Waveguide Switch Using a Monolithic Diode Array

A.L. Armstrong, D.E. Wheeler and J. Goodrich. "High Power Broadband, 35 GHz Waveguide Switch Using a Monolithic Diode Array." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 400-401.

A monolithic array of silicon diodes has been utilized to fabricate a 35 GHz single throw waveguide switch with over 400 W peak and 20 W average power capability. The switch provides 23 dB isolation, 60 nanosecond switching speed, under 1 dB insertion loss and 1.6:1 VSWR over the 26.5 to 40 GHz waveguide bandwidth. A double throw version handles 40 W average power and has a 25% bandwidth.

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