Abstracts

Multi-megawatt X-band semiconductor microwave switches

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We present the concepts for high power semiconductor RF switches, designed to handle 100 MW-order signal at X-band. Also we describe an abstract design methodology, and derive a general scaling law for these switches. The design and experimental study of a switch operating at TE/sub 01/ mode in over-moded circular waveguides is discussed. The switch is composed of array of tee junction elements that have a PIN/NIP diode array window in the third arm.

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