

Abstracts

Technique of Pulsing Low Power Reflex Klystrons

J.I. Davis. "Technique of Pulsing Low Power Reflex Klystrons." 1956 Transactions on Microwave Theory and Techniques 4.1 (Jan. 1956 [T-MTT]): 40-47.

Very little published information is available on pulsing low power reflex klystrons. Since low power reflex klystrons have been generally designed for cw operation as local oscillators, a minimum of effort has been directed toward the development of specific low power pulse reflex klystrons. This paper summarizes an effort that has been directed toward pulsing typical low power reflex klystron with a description of the techniques evolved and a summary of the limitations and merits of each technique. Included also is a description of a pulse klystron "priming" technique that minimizes the effects of pulse shortening and leading edge jitter associated with typical pulse operation.

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