

Abstracts

The New Generation of High-Power Multiple-Beam Klystrons

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A number of drawbacks of single-beam transit klystrons (i.e., narrow band, high voltages, high weight) limit their use in some applications. Multiple-beam klystrons, operating in the fundamental resonator mode, offer the possibility of dramatic improvements in performance. This report describes the advantages of multiple-beam klystrons with regard to power supply voltages, weight and bandwidth. Characteristics of production prototypes are also presented.

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