

Abstracts

Phase Stability of Varactor Frequency Multipliers

R.A. McConnell. "Phase Stability of Varactor Frequency Multipliers." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 150-152.

In the Stanford Linear Accelerator, power at 476 Mc is transmitted by a two-mile coaxial line parallel to the accelerator structure. At 30 points along the length of this coaxial line, separated by 333-1/3 feet, a few watts of power are coupled out and multiplied by varactor diode sextuples to the accelerator operating frequency of 2856 Mc. This power is then amplified and transmitted to the accelerator structure to provide acceleration to the electron beam.

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