

Abstracts

A Wideband Microwave Solid-State FM Deviator (Correspondence)

W.J. Clemetson. "A Wideband Microwave Solid-State FM Deviator (Correspondence)." 1967 Transactions on Microwave Theory and Techniques 15.5 (May 1967 [T-MTT]): 326-326.

Existing frequency modulated microwave sources are typically limited to either relatively narrow frequency deviations ($<\pm 20$ MHz) relatively low baseband response (<10 MHz), unless complicated techniques are employed. The objective of the work described in this correspondence was to develop a simple solid-state microwave deviator with greatly extended deviation and baseband response. Specifically, a frequency deviation of ± 100 MHz centered at 1.3 GHz with a linearity of less than 2 MHz, a power output of 120 mW flat to 1 dB and a baseband response from dc to 60 MHz were established as goals.

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