

Abstracts

More than 4 Percent Efficiency Solid-State Transmitter for 4 GHz Radio Relay

Y. Kitahara, T. Kyuzaki and R. Tamura. "More than 4 Percent Efficiency Solid-State Transmitter for 4 GHz Radio Relay." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 334-336.

This paper describes a 4 GHz transmitter developed by using a low-level varactor up converter and a high-gain transistor injection locked amplifier. This transmitter, permitting to obtain an RF output of 220 mW at an efficiency of more than 4% for a DC input of 5 W, is usable as a transmitter or exciter for radio relay of a maximum of 1380 channels.

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