

Abstracts

8 GHz Low Noise Bias Tuned VCO

M.E. Znojkwicz. "8 GHz Low Noise Bias Tuned VCO." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 489-491.

Design and performance of an 8 GHz cavity stabilized silicon bipolar transistor voltage controlled oscillator is presented. Very linear electronic frequency tuning with minimal output power variations are achieved without varactor by means of the transistor bias control. The VCO is mechanically tuned over 1 GHz frequency range with dielectric tuner. It delivers 50 mW of output power with 17% transistor efficiency and phase noise of -60 dBc/Hz at 1 kHz from carrier.

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