

Abstracts

2-22 GHz Low Phase Noise Silicon Bipolar YIG Tuned Oscillator Using Composite Feedback

A.P.S. Khanna and J. Buenrostro. "2-22 GHz Low Phase Noise Silicon Bipolar YIG Tuned Oscillator Using Composite Feedback." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1297-1299.

A fundamental YIG Tuned Oscillator is presented to cover, for the first time, the frequency range of 2 to 22 GHz, using a high frequency silicon bipolar transistor and a single YIG sphere. A unique composite feedback approach has been utilized to demonstrate a minimum of 10 dBm power output and phase noise of -95dBc/Hz @ 10KHz across most of the band. The design approach and performance results of this widest band & low noise oscillator are described.

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