

Abstracts

Computer-Aided Analysis and Improvement of an 8 to 18 GHz YIG-Tuned FET Oscillator

D.W. Van Der Weide. "Computer-Aided Analysis and Improvement of an 8 to 18 GHz YIG-Tuned FET Oscillator." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 881-884.

Enhancing the performance of a wide-band YIG oscillator requires a comprehensive model of the circuit so that simulation accurately reflects its behavior in the laboratory. We describe how an 8 to 18 GHz FET oscillator is modeled and improved using both circuit simulation and field solving tools, along with fixtures for measuring YIG spheres and other passive networks.

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