

## Barium Ferrite Tuned-Indium Phosphide Gunn Millimeter Wave Oscillators

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*Y.S. Lau and D. Nicholson. "Barium Ferrite Tuned-Indium Phosphide Gunn Millimeter Wave Oscillators." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 183-186.*

Two barium ferrite (BaFe) sphere tuned InP Gunn diode oscillators are described. One oscillator's output power is 6-13 dBm from 40.5 GHz to 50 GHz while the second oscillator tunes from 42 GHz to 55 GHz with -5 dBm to 2 dBm output power. These results are compared to those obtained with a YIG sphere tuned InP Gunn diode oscillator which tunes from 34.5 GHz to 50 GHz. This work represents the first reported results for BaFe sphere tuned InP Gunn diode oscillators.

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