

## Second-Harmonic Reflector Type High-Gain FET Frequency Doubler Operating in K-Band

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*Y. Iyama, A. Iida, T. Takagi and S. Urasaki. "Second-Harmonic Reflector Type High-Gain FET Frequency Doubler Operating in K-Band." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1291-1294.*

High gain FET frequency doubler with second harmonic reflector in input circuit has been developed. The reflector position which gives maximum multiplication gain depends on line loss. The relation between multiplication gain and the reflector position is varying with line loss. K-band frequency doubler designed by this theory was fabricated. Good coincidence was obtained with high gain of 6dB.

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