

SESSION X: Microwave Circuits II

FPM 10.4: Solid-State 1-Watt FM Source at 6 Gc

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THE PREVIOUS technical obstacle to the widespread consideration of completely solid-state microwave radio-relay systems is the absence of an attractive solid-state solution to the problem of the output power stage of the microwave transmitter. In contrast to previous solid-state approaches to this problem, which have tended to emphasize modulation at a comparatively low frequency prior to frequency multiplication¹, the present experiments demonstrate the feasibility of using solid-state techniques for high-power modulation subsequent to frequency multiplication to produce a 1-watt, FM signal at 6 Gc.

Solid-State Source Producing 2 Watts at 6 Gc

The measured performance of the various stages of the experimental harmonic generator chain is summarized in Figure 1. The use of six cascaded doublers, instead of an array including higher-order frequency multipliers, was dictated by the desire to minimize the dissipation requirements for individual varactors. Single, stud-mounted varactor diodes were used in lumped-element circuits to produce the three doublers operating between 30.75 and 750 Mc. Experimental microwave varactors² were used (one per stage) in the three distributed-element doublers operating between 750 Mc and 6 Gc. All varactors were shunt-connected to facilitate efficient heat-sinking. Each varactor was self-biased, although an external bias resistor was connected across each diode in the lumped-element doublers to improve circuit stability.

In the 750- to 1800-Mc doubler shown in Figure 2 the dimensions chosen to tune the input and output circuits to the desired frequencies also provide automatic tuning of undesired frequencies, i.e. natural suppression of the fundamental in the output circuit, as well as second harmonic in the input circuit. This design favors high-power operation because it permits the use of relatively high-capacitance diodes with greater dissipation ratings. The final doubler, shown in Figure 3, combines a coupled input circuit with a waveguide output circuit.

The transmitter source shown in Figure 4 consists of a crystal-controlled oscillator producing 50 mw at 93.75 Mc followed by four stages of transistor amplification to produce 20 watts at 93.75 Mc. The output stage, shown in Figure 5, is a class B push-pull circuit. The transistor bases are connected by a series-resonant circuit consisting of C_1 and the effective secondary inductance of T_1 . Since the same current is flowing in and out of the

bases of Q_1 and Q_2 , balance and phase reversal are insured. The low forward breakdown of the base-emitter diode usually found in a high-frequency power transistor provides a low-impedance current path when the transistor is going out of conduction.

Modulator

Modulation of the 1-watt, 6-Gc carrier produced by the harmonic generator chain was performed by means of an upper-sideband up-converter. (Figure 6) using a single varactor diode³, i.e. the 6-Gc carrier was combined with a frequency-modulated 70-Mc pump signal to produce the upper sideband at 6.07 Gc. Operation of this up-converter at a conversion efficiency of 50% produced the desired 1-watt, frequency-modulated signal at 6.07 Gc.

The microwave portions of the up-converter consist of a 6-Gc input filter, a waveguide mixed section varactor diode, and an output filter at 6.07 Gc. The band-stop filter at 6.00 Gc further suppresses the 6-Gc signal. As shown in Figure 6, the choice of the 70-Mc pump frequency permits this converter to be pumped directly from a 70-Mc IF amplifier in a nondemodulating receiver.

Acknowledgement

We are indebted to J. P. McCarthy and S. Mayburg for developing the experimental varactor diodes used in the microwave stages of the harmonic generator chain.



FIGURE 1—Six-stage varactor frequency multiplier generating 2 watts at 6000 Mc.

¹ Derived at Gen'l Tel. and Electronics Lab.

² Syntronics D4242P.

³ Abraham, I., G., "Solid-State Device Techniques in Microwave Radio-Relay Systems," International Symposium on Upper Communication (Globecon 65), Paper 9, Technical Papers, p. 45, June, 1964.

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 - The Rise of Digital Reading 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - User-Friendly Interface
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 - 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial Budget-Friendly Options
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 - Highlighting and Note-Taking 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial
 - Interactive Elements 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial
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 - Participating in Virtual Book Clubs
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 - Creating a Diverse Reading Collection 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial
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 - Minimizing Distractions
 - Managing Screen Time
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- Setting Reading Goals 1996 Ieee International Solid State Circuits Conference Digest Of Technical Papers Serial
 - Carving Out Dedicated Reading Time
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- Distinguishing Credible Sources

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- Exploring Educational eBooks

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- Interactive and Gamified eBooks

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