

# Abstracts

## 60-GHz-band ultracompact transmitter for HDTV

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*H. Nakakita, F. Suginoshita and N. Yazawa. "60-GHz-band ultracompact transmitter for HDTV." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1143-1146.*

We have developed a 60-GHz-band ultracompact transmitter for short-range transmission of High Definition TV (HDTV) program material. This transmitter utilizes microwave direct-frequency modulators with simplified temperature-compensation circuits and millimeter-wave modules involving MMIC multipliers and power amplifiers incorporated with integrated planar antennas. This structure has enabled the development of a pocket-sized transmitter (120/spl times/90/spl times/30 mm/sup 3/) with a low power consumption of 2.2 W. With this transmitter, HDTV signals have been successfully transmitted on an experimental video link with this transmitter.

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