

# Abstracts

## Transponder Using Self-Oscillating Mixer and Active Antenna

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K. Cha, S. Kawasaki and T. Itoh. "Transponder Using Self-Oscillating Mixer and Active Antenna." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 425-428.

A new planar transponder integrating a self-oscillating mixer (SOM) and active antennas is presented. The receiving active antenna combines a FET SOM with a patch antenna and the transmitting antenna is combined with the IF amplifier. The transponder was successfully operated up to 2 m. The design concept and the experimental result are discussed.

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