

Abstracts

A Microwave Non-Contact Identification Transponder Using Subharmonic Interrogation

C.W. Pobanz and T. Itoh. "A Microwave Non-Contact Identification Transponder Using Subharmonic Interrogation." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 753-756.

A credit-card sized microwave transponder is presented for "wireless key" and surveillance applications. Based on a subharmonically pumped quasi-optical mixer, the transponder is activated by a C-band interrogation beam to upconvert and radiate a digitally modulated identification tone at X-band frequencies non-harmonically related to the interrogation signal.

[Return to main document.](#)