Abstracts

High Power, 10 KHz Repetition Rate Ultra-Wideband Source Development at the U.S. Army's Missile Command

D. Birx and J.R. Fishback. "High Power, 10 KHz Repetition Rate Ultra-Wideband Source Development at the U.S. Army's Missile Command." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1605-1608.

A 250 MW ultra-wideband source capable of pulse repetition frequencies up to 10 kHz has been developed at the U.S. Army's Missile Command (MICOM). This modular pulser utilizes state-of-the-art magnetic switch pulse compression and electromagnetic shock line pulse sharpening to produce highly reliable 3 ns pulses with rise times less than 200 ps. ERP's of up to 0.75 GW have been achieved using TEM horns.

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