Abstracts

Radiation Efficiency Measurements of a Thin-Film Y-Ba-Cu-O Superconducting Half-Loop Antenna at 500 MHz

R.J. Dinger, D.R. Bowling, A.M. Martin and J. Talvacchio. "Radiation Efficiency Measurements of a Thin-Film Y-Ba-Cu-O Superconducting Half-Loop Antenna at 500 MHz." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1243-1246.

A 500 MHz half-loop antenna and matching network has been fabricated from a 2-cm by 2-cm thin film of the: high temperature superconductor YBaCuO. The antenna demonstrates a radiation efficiency of 20 percent, compared to 7 percent fox a comparable copper antenna.

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