Abstracts

High-Q Tl/sub 2/CaBa/sub 2/Cu/sub 2/O/sub 8/ High-T/sub c/ Superconducting Quasi-Optical Millimeter-Wave Bandpass Filters Working at 77 K (Short Papers)

D. Zhang, H.R. Fetterman, M.M. Eddy, J.L. Nilsson and R.J. Forse. "High-Q Tl/sub 2/CaBa/sub 2/Cu/sub 2/O/sub 8/ High-T/sub c/ Superconducting Quasi-Optical Millimeter-Wave Bandpass Filters Working at 77 K (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.1 (Jan. 1994 [T-MTT]): 158-159.

TI/sub 2/CaBa/sub 2/Cu/sub 2/O/sub 8/ high-temperature superconducting thin films with T/sub c/'s of over 100 K on LaAlO/sub 3/ substrates were used to fabricate quasi-optical millimeter-wave handpass filters. Q-factors of over 400 were achieved, at liquid nitrogen temperatures from these filters at W-band frequencies (75-110 GHz).

❑ Return to main document.