

Abstracts

Critical Design Issues in Implementing a YBCO Superconductor X-Band Narrow Bandpass Filter Operating at 77 K

A. Fathy, D. Kalokitis and E. Belohoubek. "Critical Design Issues in Implementing a YBCO Superconductor X-Band Narrow Bandpass Filter Operating at 77 K." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1329-1332.

New design parameters were considered in the successful implementation of a narrow band (0.5%) high-T/sub c/ filter operating at X-band and 77K. This article addresses the effects of HTS film thickness on the loss performance; kinetic and mutual inductance contributions to the center frequency drift with temperature; and nonlinearities associated with the generation of intermodulation distortion.

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