

Abstracts

HTS Microstrip Matching Networks and Filters (Short Papers)

P. Macdonald, D. Rensch, J. Josefowicz, F. Williams and W. Hoefer. "HTS Microstrip Matching Networks and Filters (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.3 (Mar. 1994 [T-MTT]): 523-525.

High-temperature superconducting (HTS) YBCO microstrip bandpass filters and microstrip impedance matching networks were fabricated, tested and compared with the predicted performance. Vector corrected measurements of these circuits were performed at cryogenic temperatures. Comparisons of the insertion loss for the HTS and corresponding Au filters are presented, as well as the predicted noise figure for the low-noise amplifiers using HTS and Au matching networks.

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