Abstracts

Design and Performance of Waveguide E-Plane HTSC Insert Filters

L. Han, Y. Chen, Y. Wang, Q. Cheng, S. Yang and P. Wu. "Design and Performance of Waveguide E-Plane HTSC Insert Filters." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 913-916.

A design theory is described for waveguide E-plane inductive strip filters that takes the high order mode interaction and finite thickness of metal with dielectric substrate underneath into account. An X-band bandpass filter is fabricated with High-Tc Superconducting (HTSC) material. The measured results of the HTSC bandpass filter are presented and compared with the CAD predicted filter performances.

❑ Return to main document.