Abstracts

Dielectric Properties of High-T/sub c/ Substrates Up to 40 GHz

J. Konopka and I. Wolff. "Dielectric Properties of High-T/sub c/ Substrates Up to 40 GHz." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1027-1030.

Dielectric properties of CaNdAIO/sub 4/ LaAIO/sub 3/, SrLaAIO/sub 4/, SrLaGaO/sub 7/ and NdGaO/sub 3/ monocrystals, prospective substrate materials for the deposition of high-Tc superconductors, were measured with high accuracy at frequencies up to 40 GHz in the temperature range 10 to 300 K. Most materials exhibit anisotropy while in CaNdAlO/sub 4/ and NdGaO/sub 3/ pronounced loss increase was found at temperatures below 100 K, probably of magnetic origin.

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