On the dynamic dielectric behaviour of $(CH_3NH_3)_3Sb_2Br_9$(MABA).

Autorzy

Czesław Pawlaczyk

Ryszard Jakubas

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Streszczenie

The complex electric permittivity of ferroelectric $(CH_3NH_3)_3Sb_2Br_9$ (MABA) single crystals has been measured in the frequency range 1 kHz - 3 GHz between 15 and 300 K. The dynamic dielectric behaviour of MABA is determined by the properties of high frequency relaxation of Cole-Cole type. It is thermally activated and characterised by a relatively small activation energy. The phase transitions at 168 and 134 K influence the amplitude of the relaxation ($\Delta\varepsilon$) without any important changes in the relaxation frequency.

Słowa kluczowe

Dielectric Response, Phase Transitions, Ferroelectrics

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