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(54) Title: GLASS CERAMIC MASS AND USE THEREOF

[Figure]

(57) Abstract: The invention relates to a glass ceramic mass containing at least one oxide ceramic containing barium, titanium and at least one rare earth metal Rek; and at least one glass material containing at least one oxide with boron, at least one oxide with silicon and at least one oxide with at least one bivalent metal Me²⁺. The glass ceramic mass is characterized in that the glass material contains at least one oxide with bismuth, especially bismuth trioxide. The oxide ceramic is especially a microwave ceramic of formula BaRek₂Ti₂O₁₂, Rek being neodymium or samarium. The composition of the oxide ceramic remains essentially constant during the sintering of the glass ceramic, enabling the material properties of the glass ceramic mass, such as permittivity (20 – 80), quality (800 – 5000) and Tf (± 20 ppm/K) to be specifically predetermined. The glass ceramic mass is characterized by a densification temperature of under 910°C and is therefore suitable for use in LTCC (low temperature cofired ceramics) technology, for integrating a passive electrical component in the volume of a multilayered ceramic body. Silver in particular can be used as an electroconductive material in this case.



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