

DIELECTRIC CERAMIC COMPOSITION AND LAMINATED CERAMIC PARTS

ABSTRACT OF THE DISCLOSURE

It is an object of the present invention to provide an improved temperature compensating dielectric ceramic composition, and laminated ceramic parts such as a laminated ceramic condenser and a laminated LC filter, each of which is formed by using such a temperature compensating dielectric ceramic composition having a high relative dielectric constant and a high Q value, and allowed to be sintered at a relatively low temperature during their manufacturing processes, without causing any undesired variations in ceramic properties during a sintering treatment. The composition comprises 100 parts by weight of a main component having a mole composition ratio (BaO , TiO_2 , Re_2O_3) shown in a ternary composition diagram, indicated by an area surrounded by point A (39.5, 59.5, 1), point B (1, 59.5, 39.5), point C (1, 85, 14) and point D (14, 85, 1); 25 parts by weight or less of a B_2O_3 - SiO_2 glass (but not containing Pb oxide); a least one substance selected from V oxide (the content of V oxide in the form of V_2O_5 is 10 parts by weight or less) and W oxide (the content of W oxide in the form of WO_3 is 20 parts by weight or less). Preferably, the composition further contains either 10 parts by weight or less of CuO , or 20 parts by weight or less of MnO .

Fig. 1