

- 42 -

P/1071-810

DIELECTRIC CERAMIC COMPOSITION AND
MONOLITHIC CERAMIC CAPACITOR

ABSTRACT OF THE DISCLOSURE

A dielectric ceramic composition exhibiting a firing temperature of 1300°C or less, a dielectric constant of 200 or more, a low loss under a high-frequency-high-voltage alternating current, high insulation resistance at high electric field strength, characteristics satisfying the B and X7R characteristics, and excellent high-temperature load properties. It contains a barium titanate solid solution and additive components, and is represented by the formula, $ABO_3 + aR$ and bM , wherein ABO_3 represents the barium titanate solid solution having a perovskite structure; R represents an oxide of at least one metal, M represents an oxide of at least one other metal, a and b respectively represent the molar ratios of single metal oxides and a sintering additive, wherein $0.950 \leq A/B$ (molar ratio) ≤ 1.050 , $0.12 < a \leq 0.30$, and $0.04 \leq b \leq 0.30$.

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