

P/1071-367

MONOLITHIC CERAMIC CAPACITOR

ABSTRACT OF THE DISCLOSURE

5 A monolithic ceramic capacitor [is disclosed,
comprising plural] has dielectric ceramic layers[, plural
internal electrodes each formed between the dielectric
ceramic layers such that the end] of [each of the
internal electrodes alternatively exposes to both the
side surfaces of the dielectric ceramic layer, and
10 external electrodes formed such that they are
electrically connected to the exposed internal
electrodes, wherein the dielectric ceramic layers are
constituted by] a material comprising barium titanate
having [a content of] alkali metal oxides [contained as]
15 impurities in an amount of not more than about 0.02% by
weight, [at least one kind selected from scandium oxide
and yttrium oxide, at least one kind selected from
samarium oxide and europium oxide,] manganese oxide,
cobalt oxide, and nickel oxide; [containing by addition
20 magnesium oxide as an accessory constituent in an amount
of] from about 0.5 to 5.0 mols [converted as] MgO to 100
mols of [the] a main constituent shown by the following
composition formula;

25 (1- α - β - γ) {BaO}_m•TiO₂ + α M₂O₃ + β Re₂O₃ + γ (Mn_{1-x}Ni_xCo_y)O
wherein[,] M₂O₃ is at least one [kind selected from] of
Sc₂O₃ and Y₂O₃; Re₂O₃ is at least one [kind selected from]
of Sm₂O₃ and Eu₂O₃ and α , β , γ , m, x, and y are

$$0.0025 \leq \alpha + \beta \leq 0.025$$

$$0 \leq \beta \leq 0.0075$$

30 $0.0025 \leq \gamma \leq 0.05$

$$\gamma/(\alpha + \beta) \leq 4$$

$$0 \leq x < 1.0$$

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$$0 \leq y < 1.0$$

$$0 \leq x + y < 1.0$$

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$$1.000 < m \leq 1.035;$$

[furthermore, containing] an $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-(\text{Si}, \text{Ti})\text{O}_2$ [series] oxide glass in an amount of from about 0.2 to 3.0 parts by weight to 100 parts by weight of the sum total of the main constituent and the magnesium oxide, and the internal electrodes are constituted by nickel or a nickel alloy.

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