

METHOD OF MANUFACTURING SOLID ELECTROLYTIC CAPACITORS

ABSTRACT OF THE DISCLOSURE

A method of manufacturing solid electrolytic capacitors of the present invention comprises: forming an anodized film on a surface of an anode made of a valve metal ; forming a capacitor element by adhering an insulating resist tape for separating negative electrode part and positive electrode part on said anodized film; forming a MnO_2 layer by immersing said capacitor element in a solution containing manganese salts, removing the capacitor element from the solution, and thermally decomposing attached manganese salts; immersing the capacitor element on which the MnO_2 layer is formed in an organic polar solvent or its solution; re-anodizing the capacitor element by immersing the capacitor element in the electrolytic solution before the organic polar solvent or its solution dries; and forming a solid electrolyte layer and cathode conductor layer on the base layer. The manufacturing method of the present invention thus offers solid electrolytic capacitors which demonstrate less change in leak current when they are kept at high temperature and high humidity, and good impedance characteristics at high frequencies.



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