

SOLID ELECTROLYTIC CAPACITOR
AND METHOD OF MANUFACTURING THE SAME

ABSTRACT OF THE DISCLOSURE

A conductive high polymer layer as an electrolyte is formed on the entire surface of fine pores of a dielectric oxide layer of an anode electrode having an undulated surface of fine pores or the like. As a result, a solid electrolytic capacitor having characteristics such as capacitance, impedance, and leak current exactly as designed will be obtained. It comprises a manganese dioxide layer composed of a porous sinter of valve metal or roughened metal foil, placed continuously on the entire surface of the undulated surface of a dielectric oxide layer of an anode electrode having an undulated surface, a conductive high polymer layer formed by electrolytic polymerization, in contact with the surface of the manganese dioxide layer, and a cathode electrode placed on this conductive high polymer layer.

Fig. 1