

METHOD OF MANUFACTURING SOLID ELECTROLYTIC
CAPACITOR, AND APPARATUS OF MANUFACTURING THE SAME



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Abstract of the Disclosure

A plurality of capacitor elements can be processed continuously, and the work is extremely easy. As a result, the mass producibility is notably improved. Further, capacitor elements for solid electrolytic capacitor having excellent characteristics such as small leak current, high withstand voltage, and excellent reliability are obtained. The manufacturing method includes: (a) supplying a band metal having a central part in the width direction and a plurality of protrusions formed at an end part in the width direction, (b) forming a dielectric layer on the surface of the plurality of protrusions, (c) disposing a conductor layer above the dielectric layer, (d) adhering a conductive tape to the central part, (e) forming a conductive high polymer film above the plurality of protrusions, by performing electrolytic polymerization by starting polymerization from the conductive tape, (f) peeling the conductive tape from the metal, (g) fabricating a plurality of capacitor elements by cutting off individual protrusions from the plurality of protrusions, from the band metal forming the conductive high polymer film, and (h) fabricating a solid electrolytic capacitor by laminating said plurality of capacitor elements. The conductive high polymer film is formed by using the conductive tape as a common positive electrode, and using a plurality of electrodes connected independently to the leading ends of the individual protrusions as independent



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negative electrode.

Fig. 1