

ABSTRACT

Provided are a solid electrolytic capacitor that has excellent heat-resistance and electric properties, showing a high capacitance and a low ESR, and a method for producing same. [1] The solid electrolytic capacitor is a thiophene derivative having a heteroatom-containing cyclic substituent group, characterized by containing, as a solid electrolyte, molecules obtained by polymerizing a compound having an alkyl substituent group on the heteroatom-containing cyclic substituent group. [2] The method for producing the solid electrolytic capacitor has a step of forming the molecules described in [1] mentioned above on a valve-action metal on which a dielectric oxide film has been formed.