

ABSTRACT

ELECTROLYTIC SOLUTION FOR ELECTROLYTIC CAPACITOR
AND ELECTROLYTIC CAPACITOR USING THE SAME

5

10 An electrolytic solution for an electrolytic
capacitor, which comprises (1) a solvent made up of 20 to
80% by weight of an organic solvent and 80 to 20% by
weight of water, (2) at least one electrolyte selected
from the group consisting of carboxylic acids, salts of
15 carboxylic acids, inorganic acids, and salts of inorganic
acids, and (3) a chelate compound. Preferably, an
organic acid or salt thereof and an inorganic acid or
salt thereof are used in combination. The chelate
compound may be selected from the group consisting of
20 ethylenediamine-N,N,N',N'-tetraacetic acid, trans-1,2-
diaminocyclohexane-N,N,N',N'-tetraacetic acid
monohydrate, N,N-bis(2-hydroxyethyl)glycine,
ethylenediamine-N,N,N',N'-tetrakis(methylenephosphonic
acid), diethylenetriamine-N,N,N',N'',N''-pentaacetic acid,
1,3-diamino-2-hydroxypropane-N,N,N',N'-tetraacetic acid,
25 ethylenediamine-N,N'-diacetic acid, ethylenediamine-N,N'-
bis(methylenephosphonic acid) hemihydrate, O,O'-bis(2-
aminoethyl)ethyleneglycol-N,N,N',N'-tetraacetic acid, and
N-(2-hydroxyethyl)ethylenediamine-N,N',N'-triacetic acid.
An electrolytic capacitor using, as its electrolytic
30 solution, the disclosed electrolytic solution is also
disclosed.

(Figure 1)