

General Statement Concerning the RoHS Directive and Film-, Paper- and Aluminium Electrolytic Capacitors

As an environmentally conscious company, Evox Rifa is working continuously with improvements concerning the environmental effects of both our capacitors and the production of them. Due to the legislation in the EU, some materials will be restricted for use in electrical and electronic products from 1st of July 2006 (RoHS directive). The only material in that document that has been in our capacitors is Lead (Pb). Lead has been used as one part in combination with Tin (Sn) in the solder coating alloy on the wires, about 4-10 µm thick. In addition, Sn/Pb -alloy has been used as the end-spraying material to contact the wires to the winding element in some of our Paper capacitors, and as foil electrode material in film-foil Polypropylene and Paper capacitors. Lead has also been present in the rubber gasket material of high voltage axial Aluminium electrolytic capacitors.

In order to support our customers in the process of phasing-out the use of Pb well in advance before the 1st of July 2006, Evox Rifa has decided to phase out Lead from the products.

From 1st of May 2005 all Evox Rifa products are available Pb-free and thus fully RoHS Compliant. *

All article codes will remain the same. From 1st of May the packages, which contain Pb-free and RoHS Compliant capacitors, are clearly marked on the label of the package with a Pb-free symbol in combination with the text: "RoHS Compliant". The change to RoHS compliant production is occurring on a running basis. It is possible that end-users will receive parts containing Pb until the stock is exhausted and replaced by RoHS compliant parts. Contact your local Evox Rifa sales office to learn the stock situation for the specific part numbers of interest. **If during the transition period one particularly needs Pb-free articles, it has to be made clear in the specific order.**

Evox Rifa SMD capacitors have been RoHS compliant since production began ca. 10 years ago. Even so, many customers have asked that we include a compliance statement on the box labels so that there is no confusion about their status. Such markings will commence also in May 2005. **Please note that earlier products will not have this marking, yet the products are still RoHS compliant.**

To our best knowledge, Pb-free wires can be used in Sn/Pb soldering processes. Sn/Pb-coated wires can also be used in Pb-free soldering processes, but the risk of contamination of the Pb-free soldering alloy is obvious. Evox Rifa is not liable for any such contamination nor any consequences thereof.

Evox Rifa uses three types of solder coatings: Electrolytically coated 100% Sn with Ni underlayer, Hot-Dip coated 100% Sn, and Electrolytically coated 100% Sn with post annealing process to relieve stresses. **All of these coating types are according to Evox Rifa's best knowledge not growing such whiskers, which could cause problems for the electronic circuit.**

* PEG124/PEH124 from the 1st of January 2006

RoHS



Compliant



RoHS Compliant

Examples of RoHS Compliance markings on packaging labels

(Because of customer requirements there may appear additional markings like LF = Lead Free or LFW = Lead Free Wires on the labels)