

Action 39A06: Exxelia DCR proposal for HT86PS – HT97PS

Some technological explanation:

The HT86PS and HT97PS are high voltage capacitors, based on reconstituted mica impregnated with epoxy resin technology. Its performances could be affected by the moisture and the below recommendations aim to prepare the capacitors before integrating into a potted or varnished equipment or subassembly. Specific care should be taken to preserve the capacitor against the humidity after integration in the equipment.

Appendix to be integrated in the Detail Specification:

The capacitors are packaged in moisture barrier aluminum bags hermetically sealed. They can be stored for a maximum period of 2 years in their original packaging.

The following procedure should be followed in function of the storage time (the storage time is the time between delivery and the date of unpacking from the original packaging):

- From 0 to 12 months : no instructions
- From 12 to 24 months : The optimal conditions recommended are:
 - Step-1 : dry in a vacuum chamber between $10^{-2} < P < 10^{-1}$ mbar at 85°C during 48 hours
 - Step-2 : dry in a ventilated chamber at 125°C during 48 hours

Note 1: An alternative drying could be a baking in a ventilated chamber at 125°C during 96h.

When removed from storage the capacitors should be used within 3 months (conditions : $< 30^{\circ}\text{C}$ / $< 60\%$ RH). If the capacitors are not used within the 3 months period, they should be cleaned and baked applying the previous conditions.

Note 2: If the storage in original packaging exceeds 24 months period, or in case of no respect of the storage conditions after unpacking, Exxelia could propose a reliving of the capacitors applying more specific conditions and control of the characteristics before shipment.

Note 3:

The usual rules are applied when handling high voltage components. For example:

- handling by qualified personnel only,
- electrical security regulations must be respected,
- component electrical characteristics must be respected,
- storage and handling in a clean and dry area free from aggressive chemical substances
- handle with care to avoid unnecessary shock, scrapes, dents, ...
- handle with gloves and/or clean before power on (check compatibility of cleaning solvent)
- dry and clean before integrating into a potted, varnished or impregnated equipment or subassembly
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