

Silver dendrite formation during damp heat test on Exxelia SFC 035 feedthrough filters

CNES INFORMATION

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MANUFACTURER / PART

EXXELIA

1 RUE DES TEMPS MODERNES 77600 CHANTELOUP-EN-BRIE FRANCE FAMILY :CAPACITOR FILTERSUB-FAMILY :FEEDTHROUGHTYPE :SFC 035 3471 YR 100VPART NUMBER :300803102C471MELOT DATE CODE :ALL SINCE 2031

OCCURRENCE AND FAILURE DESCRIPTION

During LAT2/Damp heat test, Exxelia observed the formation of silver dendrites on the body of the filter which progresses towards the central contact on several parts:



PROGRESS

Several investigations are in progress (environmental conditions at Exxelia, influence of exposure angle and position in the oven during damp heat testing, influence of the obstruction resin profile ...) but no root cause was identified at this stage.

RECOMMENDATIONS

The non-qualified silver variants shall not be used, it is recommended for users to favour ESCC qualified products with gold finish (SFC030).

RELEASE BY CNES EEE ALERT COMMITTEE

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