

MEC A/S

Moisture Level Verification of Illumec Switch

Title **Moisture Level Verification of Illumec Switch**

Project No. 0517a ML Verification of Illumec Switch

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Report concerning Project No.

0517a ML Verification of Illumec Switch

1. Definition

The scope of this report is to verify the “Illumec” switch moisture sensitivity. The Illumec switch is available in both Surface Mount and Through Hole versions. The test has been limited to the Surface Mount version, as this version will meet the most demanding process requirements.

2. Applicable documents

- JEDEC J-STD-020C

3. Work Description

For Verification of the Illumec Switches the following has been carried out:

Visual inspection and Microscopy

Mounting and soldering of Illumec switch on vehicle PCB

Damp Heat steady state according to JEDEC J-STD-020C

Reflow according to JEDEC J-STD-020C

Visual inspection and Microscopy

4. Summary Conclusion

The Illumec Switch is based on the same technology used in the Multimec switch, which has already documented its reliability. The test documents that the use of LED chip components, mounted using conductive adhesive, is a reliable method to integrate the illumination, and the tested Illumec switches passed all the tests for moisture sensitivity level 2 according to the referred IPC/JEDEC J-STD-020C specification.