

General storage conditions

Due to physical processes, finished components are subject to ageing processes that can have a negative impact on further processability. In order to ensure optimum processability, the following instructions must be observed and ensured during further processing.

Connectors and contacts must be stored under controlled conditions so that they can be used without additional testing or special treatment. If the storage time specified below is exceeded or the storage conditions are not observed, this may affect the long-term reliability or processability of the components.

Storage times should be kept as short as possible due to the physical properties of the parts.

This information is based on experience (for components stored under optimum conditions) and does not constitute a binding commitment to the fulfillment of certain properties.

Alternative packaging options can be requested from Lumberg for deviating temperature and environmental conditions.

Silver-plated and tin-plated surfaces are particularly sensitive to environmental influences and must be protected accordingly during transportation and further processing. Corresponding measures also apply to gold-plated surfaces.

Storage room conditions

- A temperature of +5 °C to +40 °C should be ensured in the storage room. Lumberg recommends maintaining a humidity of between 30 % and 60 %, non-condensing, in the storage room.
- It is strongly recommended that the components are stored in their original packaging. Stacking boxes must be covered or closed if the components are transferred for production reasons.
- The original packaging of the components must be intact. Damage, perforations or cracks are not permitted. Components and packaging must always be protected from direct exposure to light or UV light.
- Connectors, components and contacts must not be stored together with chemicals or other substances that could affect their processability.

- The storage rooms must be closed and must not be located near sources of dust or moisture. Contamination by dust and other precipitation must be prevented.
- Mechanical stress (e.g. shock, vibration), such as that caused by air conditioning systems, machines or passing vehicles, must be avoided.

The components should only be stored under the controlled conditions listed above in order to prevent the effects of moisture, mold or other damage to the packaging.

Connectors and contacts can then be used as follows.

Connector components without solder connections, strip goods and other solderless components

- The permissible storage time for tin-plated connectors, strip goods and other solderless components is 1 year from delivery by Lumberg. In the case of silver-plating, the storage period is reduced to 6 months and for galvanic gold-plating we specify 1 year and under optimum storage conditions up to 2 years.
- If this storage time is exceeded, the components must be examined more closely by the quality department for the application. It is possible and probable that the parts are still usable. If no oxidation, corrosion or other damage is detected during the inspection, the components can continue to be used based on this inspection.

Additional requirements for connector components, parts and contacts for the contact area of the solder connections

- The storage life of these connectors, parts and contacts is 1 year from delivery by Lumberg for tin-plating and 6 months for silver-plating. For galvanic gold-plating, we specify 1 year and up to 2 years under optimum storage conditions.
- If the storage time is exceeded, the components must be examined more closely by the quality department for the application. It is possible and probable that the parts are still usable. DIN EN IEC 60068-2-20 (as amended) is the basis for testing the solderability of the components in the as-delivered or delivered condition, and for this purpose the component is dipped in a SnAg4Cu solder (SAC solder).
- After a positive solderability test, the components can generally still be used.