

Fraunhofer

TESTED[®] DEVICE

KUKA Deutschland GmbH LBR iisy 11 R1300 CR

Report No. KU 2303-1404

Statement of Qualification

Single product **Electrostatic Charge Behavior**





Statement of Qualification • Single product

Customer KUKA Deutschland GmbH

Zugspitzstrasse 140 86165 Augsburg Germany

Component tested

Category: Automation Components

Subcategory: Robotics

Product name: LBR iisy 11 R1300 CR

(manufacturing date: 1/10/2024; color: white and orange; weight: 46.3 kg;

serial number: 4561014)

Measurement of charge behavior

Test procedure parameters:

Standards/Guidelines: SEMI E78-0222

The norms stated generally refer to the version valid at the time of the tests.

Test environment parameters:

• Cleanroom Air Cleanliness Class (according to ISO 14644-1):......ISO 1

• Airflow pattern: vertical laminar flow • Temperature: $22 \,^{\circ}\text{C} \pm 0.5 \,^{\circ}\text{C}$

Test result/Classification

The robot LBR iisy 11 R1300 CR fulfills the permissible limit values of 2 V/cm (0.2 kV/m) for the sensitivity threshold 2033/7.7 nm according to SEMI E78-0222.

Electrostatic field			
Electrostatic level		Test result	
Year Node	Limit value [V/cm]	Max. mean value [V/cm]	Max. single value measured [V/cm]
2033 7.7 nm	8.5	2	4
Limit value:		fulfilled	

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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The document can be

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on behalf of Davis

