





Fraunhofer TESTED® DEVICE KUKA Roboter GmbH LBR iiwa 14 R820 CR Report No. KU 1707-925

Statement of Qualification

Electrostatic Resistance

Statement of Qualification

Customer

KUKA Roboter GmbH Zugspitzstrasse 140 86165 Augsburg Germany

Component tested

Category:	Automation Components
Subcategory:	Robotics
Product name:	LBR iiwa 14 R820 CR (manufacturing date: 5/2017; serial number: 982697; payload: 14kg; reach: 820mm)

Electrostatic discharge measurements at representative points (resistance to earth)

Standards/Guidelines:	DIN EN 61340-2-3; DIN EN 61340-5-1 The norms stated generally refer to the version valid at the time of the tests.
Test devices:	Data capture:Tera-Ohm-Meter, type 6206, Eltex (Weil am Rhein)
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):
Test procedure parameters:	 Assembly state:insulating base - Type: 4x insulating feet – fully-insulated hexagonal feet with R > 10¹⁴ Ω - Material:glass-filled polyester - Thickness:

Test result/Classification

The robot LBR iiwa 14 R820 CR was examined for its resistance to earth in accordance with DIN EN 61340-2-3. The test result lies below the required maximum value of 1 x $10^9 \Omega$ according to DIN EN 61340-5-1 for ESD protective elements.



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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

KU 1707-925 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Report No. current document on behalf of Dr.-Ing. Frank Bürger, Project Man



Operating voltage [V]	Resistance [Ω]	Compliance with limit value as per DIN EN 61340-5-1
10	< 1 x 10 ³	fulfilled

Stuttgart, October 12, 2017	
Place, date of first document issued	
Place, current date	
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This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.