



Fraunhofer

TESTED[®]

DEVICE

LAPPKOREA LLC
CR 8113 C MC 3 X 0.14SQ
Report No. LA 2206-1327

Single product Particle Emission

DUPPLICATED

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.

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

Qualification Certificate

This is to certify that the product mentioned above, provided by

LAPPKOREA LLC
Hwaseong-si, Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number LA 2206-1327.

The UNITRONIC CLEANROOMFD 8113 C MC 3 X 0.14SQ (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	1
Overall result	1

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

LA 2206-1327
Report No. first document

Stuttgart, August 4, 2022
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of



Fraunhofer
IPA