

RoHS (Restriction of Hazardous Substances)

Certificate of Compliance

MKS Instruments, Inc. hereby certifies that the products listed in the table below are compliant with the European Union's RoHS directive 2011/65/EU (effective 22 July 2017) regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment. The products listed below are compliant to RoHS requirements for concentration limitations, by weight of homogeneous material, of the following six substances:

<0.1% (1000 PPM)
<0.1% (1000 PPM)
<0.01% (100 PPM)
<0.1% (1000 PPM)
<0.1% (1000 PPM)
<0.1% (1000 PPM)

Product	RoHS Compliant Part Number
NIR Achromatic Lenses, 12.0 mm Diameter, 20.0 mm EFL, 750-1550 nm	PAC02AR.16

The above thresholds are not in place for any legally allowable exemptions per Annex III of the aforementioned directive. If such exemptions are in use, they are noted on the attached table.

All information provided in this Certificate of Compliance is accurate to MKS' knowledge as of the date of this certification. This confirmation is made based our internal engineering risk analysis of the individual items possibly being present along with the best technical information made available to MKS from its material suppliers.

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James Fisher Vice President and General Manager

July 22, 2017

Date

MKS Instruments, Inc.

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Document Number: MKS-CD-1138

MKS CONFIDENTIAL

Revision: A