



# RoHS (Restriction of Hazardous Substances)

## Certificate of Compliance

MKS Instruments, Inc. hereby certifies that the products listed in the attached table are compliant with the European Union's RoHS directive 2011/65/EU (effective 22 July 2021) 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 ten substances.

### LIST OF SUBSTANCES BANNED BY ROHS2 – JULY 2021

(Item cannot exceed 0.1% of homogeneous material – except as noted)

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd) – 0.01% limit
- Hexavalent chromium (Cr6+)
- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl ether (PBDE)
- Diisobutyl phthalate (DIBP)
- Bis (2-ethylhexyl) phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutylphthalate (DBP)

#### Product

#### RoHS Compliant Part Number

Broadband Hollow Retroreflector, 1.0 in, 1 arc sec parallelism, 225-700 nm      UBBR1-1UV

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 on 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

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July 22, 2017

**Date**