



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, (EU) 2015/863 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council 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 ten substances shown on the following page.

Products

Laser Diode Mounts, Butterfly and DIL

RoHS Compliant Part Numbers

**LDM4982, LDM4982T, LDM4983, LDM4983T,
LDM4984, LDM4984T, LDM4984BTB,
LDM4984TBTB, LDM4984RF, LDM4984TRF**

The thresholds shown below 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. If no exemptions are in use, then no further information is provided.

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.

**OPHIR OPTRONICS
SOLUTIONS LTD**

**Reuven Silverman
Business Unit / General Mgr**

12/10/2021

Date



LIST OF SUBSTANCES BANNED BY ROHS DIRECTIVE EU 2015/863

(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)

MKS ROHS DIRECTIVE 2011/65/EU PRODUCT EXEMPTIONS

MKS Product Number	MKS Product Description	Annex III Exemption #	Annex III Exemption Description
LDM4982 LDM4982T LDM4983 LDM4983T LDM4984 LDM4984BTB LDM4984RF LDM4984TBTB LDM4984TRF	Laser Diode Mounts, Butterfly and DIL	6(c)	Copper alloy containing up to 4 % lead by weight
LDM4982 LDM4982T LDM4983T LDM4984RF LDM4984T LDM4984TBTB LDM4984TRF	Laser Diode Mounts, Butterfly and DIL	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound