



## 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**

**RoHS Compliant Part Numbers** 

Housings

Oriel® Research and Q Series Lamp 60000, 66881, 66884, 66885, 66901, 66902, 66921, 66923, 67001, 67005, 67009, and 67011

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.

1/20/2023

Reuven Silverman

**Business Unit / General Mgr** 

Date



### LIST OF SUBSTANCES BANNED BY ROHS DIRECTIVE EU 2015/863

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

- o Lead (Pb)
- Mercury (Hg)
- o 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	MKS Product	Annex III Exemption	Annex III
Number	Description	#	Exemption Description
66881, 66884,	Oriel® Research	6(a)	Lead as an alloying element in steel for
66885, 66901,	Lamp Housings		machining purposes and in galvanised
66902, 66921,			steel containing up to 0.35 % lead by
66923, 67001,			weight
67005, 67009,			
67011			
66881, 66884,	Oriel® Research	6(b)	Lead as an alloying element in aluminium
66885, 66901,	Lamp Housings		containing up to 0.4 % lead by weight,
66902, 66921,			provided it stems from lead-bearing
66923, 67001,			aluminium scrap recycling
67005, 67009,			
67011			
66881, 66884,	Oriel® Research	6(c)	Copper alloy containing up to 4 % lead by
66885, 66901,	Lamp Housings		weight
66902, 66921,			
66923, 67001,			
67005, 67009,			
67011			
66881, 66884,	Oriel® Research	7(a)	Lead in high melting temperature type
66885, 66901,	Lamp Housings		solders, e.g. lead-based alloys containing
66902, 66921,			85 % by weight or more lead
66923, 67001,			
67005, 67009,			
67011			

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66881, 66884, 66885, 66901, 66902, 66921, 66923, 67001, 67005, 67009, 67011	Oriel® Research Lamp Housings	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
66881, 66884, 66885, 66901, 66902, 66921, 66923, 67001, 67005, 67009, 67011	Oriel® Research Lamp Housings	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher