

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 (including Delegated Directive 2015/863 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 ten substances shown on the following page.

<u>Product</u>	<u>RoHS Compliant Part Number</u>
Therm Det, 3W,10mm Aperature	919P-003-10
Therm Det, 10W,16mm Aperature	919P-010-16
Therm Det, 20W,12mm Aperature	919P-020-12
Therm Det, 30W,18mm Aperature	919P-030-18
Therm Det, 40W,50mm Aperature	919P-040-50
Therm Det, 50W,18mm High Peak Aperature	919P-050-18HP
Therm Det, 50W,26mm Aperature	919P-050-26

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
Site General Manager

20.November.2023

MKS RoHS PRODUCT EXEMPTION LISTING

MKS Product Number	MKS Product Description	Annex III Exemption #	Annex III Exemption Description
919P-003-10	Therm Det, 3W,10mm Aperature	7.C-I	Lead (in a glass or ceramic)
919P-010-16	Therm Det, 10W,16mm Aperature	7.C-I	Lead (in a glass or ceramic)
919P-020-12	Therm Det, 20W,12mm Aperature	7.C-I	Lead (in a glass or ceramic)
919P-030-18	Therm Det, 30W,18mm Aperature	7.C-I	Lead (in a glass or ceramic)
919P-040-50	Therm Det, 40W,50mm Aperature	7.C-I	Lead (in a glass or ceramic)
919P-050-18HP	Therm Det, 50W,18mm High Peak Aperature	7.C-I	Lead (in a glass or ceramic)
919P-050-26	Therm Det, 50W,26mm Aperature	7.C-I	Lead (in a glass or ceramic)

LIST OF SUBSTANCES BANNED BY ROHS – 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)