

Certificate of RoHS Compliance

We certify that the products listed below are in compliance with the RoHS Directive*1 in EU containing COMMISSION DELEGATED DIRECTIVE (EU) 2015/863*2.

*1 RoHS Directive:

Directive 2011/65/EU of the European Parliament and of the Council of 08 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and delegated directives amending RoHS Annexes.

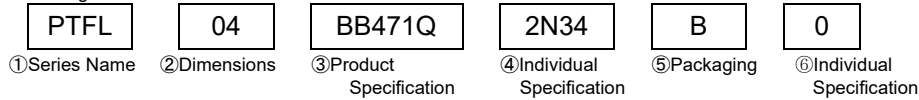
*2 COMMISSION DELEGATED DIRECTIVE (EU) 2015/863:

COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Products List

PTFL Series

Part Numbering Pattern



*3 Restricted substances:

Substance designated by "Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials" in RoHS DIRECTIVE Annex II. (Containing COMMISSION DELEGATED DIRECTIVE (EU) 2015/863.)

*4 RoHS Exemption:

Annex III of RoHS Directive ; "Applications exempted from the restriction in Article 4(1)"

*5 RoHS restriction substance status-->

- Contained : In at least one homogeneous material, the content of non-cadmium is higher than 1000ppm per homogeneous material (in case of cadmium content, higher than 100ppm)
- Not Contained: In all homogeneous materials, the content of non-cadmium is up to 1000ppm per homogeneous material (in case of cadmium content, up to 100ppm).

*6 The following products are excluded from the warranty of this certificate.

- 6-1 Products which are shipped from Murata Manufacturing Co., Ltd. prior to the issue date of this certificate.
- 6-2 Products which are exchanged individual contracts between Murata Manufacturing Co., Ltd. and its customers about RoHS-non-compliant products
- 6-3 Products which are exchanged individual contracts between Murata Manufacturing Co., Ltd. and distributors, and purchased from distributors.
- 6-4 Products which are manufactured using the individual contract products mentioned in 6-2 and 6-3 above.

As for individual contracts, please contact the sales department of Murata Manufacturing Co., Ltd., or the distributors and suppliers which purchase our products.

RoHS restriction substance

Substance	Status
Lead and its compounds	Not Contained
Mercury and its compounds	Not Contained
Hexavalent Chromium	Not Contained
Cadmium and its compounds	Not Contained
Polybrominated biphenyls(PBBs)	Not Contained
Polybrominated diphenyls ethers(PBDEs)	Not Contained
DEHP (Di-(2-ethylhexyl) phthalate)	Not Contained
BBP (Butyl Benzyl phthalate)	Not Contained
DBP (Dibutyl phthalate)	Not Contained
DIBP (Di-isobutyl phthalate)	Not Contained

Murata Manufacturing Co.,Ltd.

- This certificate is issued based on the best knowledge of Murata Manufacturing Co., Ltd. As of the issue date.
- If you have any questions about this certificate, please contact Murata Manufacturing Co., Ltd. Sales office or Contact Form.
- We would appreciate it if you would not disclose this document to the 3rd party and obtain it directly form Murata Manufacturing Co., Ltd. Website.