

## Response to EU RoHS Directive

### To Customer,

Fujitsu Semiconductor is actively promoting the development of eco-friendly products and compliance with all relevant related legislation.

We therefore would like to inform you about our RoHS Directive, “the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU (effect as from 3 January 2013)” and “Commission Delegated Directive, EU 2015/863 (published on 31 March 2015, shall apply from 22 July 2019)” response.

Fujitsu Semiconductor products do not contain any regulated substances in excess of the maximum concentration value except for the exemption listed in the Annex III of the EU RoHS Directive.

The regulated substances and maximum concentrations value under the EU RoHS are as follows:

Substances restricted by EU RoHS	Maximum concentration value (ppm)
Lead (Pb) *1	1,000
Mercury (Hg)	1,000
Cadmium (Cd)	100
Hexavalent chromium (Cr <sup>6+</sup> )	1,000
Polybrominated biphenyls (PBB)	1,000
Polybrominated diphenyl ethers (PBDE)	1,000
Bis (2-ethylhexyl) phthalate (DEHP)	1,000
Butyl benzyl phthalate (BBP)	1,000
Dibutyl phthalate (DBP)	1,000
Diisobutyl phthalate (DIBP)	1,000

Remarks 1: Our applied exemptions in the Annex III of the EU RoHS Directive:

We do not apply any exemptions for our products after 1 August 2016.

(Except the EOL products or long-term-storage products in distributors or sales companies.)

\*1: About “lead titanium zirconium oxide (PZT):

Our FRAM products contain PZT as the intentional addition for our product characteristics in FRAM capacitor of ferroelectric substance. However our FRAM product comply to EU RoHS Directive without using exemption of 7(c)-IV in the Annex III, because we confirm that concentration value in chip (homogeneous material) is less than threshold value (<1000ppm).

Remarks 2: Applicable scope of 4 additional substances as phthalates (DEHP/BBP/DBP/DIBP)

[EU 2015/863]: All products which have the date code after 2018 as the production lot.

For more detailed information, please follow the link below:

[http://ec.europa.eu/environment/waste/rohs\\_eee/index\\_en.htm](http://ec.europa.eu/environment/waste/rohs_eee/index_en.htm)

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Date February 5 2019

Signature 