



RoHS Certificate of Compliance

Restriction of the use of certain Hazardous Substances (RoHS)

The EC RoHS Recast Directive 2011/65/EU which entered into force on 21/7/2011, with its obligations taking effect from 2/1/2013, restricts the use of the hazardous substances listed below in electrical and electronic equipment.

Based on information provided by our suppliers Farnell / element14 designates the product listed below as **RoHS compliant** for orders placed on or after the date of this certificate, and that the product is suitable for use in "finished equipment" as defined in the legislation.

RoHS compliant means that:

- Our supplier has confirmed the compliance status of the relevant products to us (including those compliant by the use of an exemption)
- We apply rigorous and ongoing processes to confirm and document this information

This provides you with the assurance you need — visit <http://www.element14.com/legislation> for more details.

Confirmation of compliance status by our suppliers is either because the products do not contain any of the restricted substances referred to in Annex II of the RoHS Recast, at concentrations in excess of those permitted under the Directive or because removal of the restricted substances is not technically possible and their existence in the products at levels in excess of these concentrations is allowed as one of the particular exemptions listed in Annex III of the RoHS Recast Directive 2011/65/EU.

For these purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

Farnell / element14 takes all reasonable steps to confirm suppliers' statements regarding the absence of the restricted substances and maintains a full audit trail of relevant documentation to support this.

Order Code	1467674
Description	Chip Configuration:16bit; Bus Frequency:1.7MHz; IC Interface Type:I2C, Serial; Supply Voltage Min:4.5V; Supply Voltage Max:5.5V; Interface Case Style:SSOP; No. of Pins:28; No. of I/O's:16; Pac
Manufacturer / Brand Name	MICROCHIP
Manufacturer Part Number	MCP23017-E/SS
Date	Mon Mar 28 16:14:49 BST 2016
Customer	Brian Dorey

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Gary Nevison

Head of Legislation and Compliance
Statement on Behalf of Premier Farnell