Vishay Material Category Policy

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-: PREFACE :-

The Vishay Material Category Policy defines the process and guidelines followed at Vishay in response to global environment related directives. This document helps customers and suppliers to better understand the compliance status of Vishay products.

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Definitions

Lead(Pb)-Free

Vishay products follow lead (Pb)-free policy as per J-STD-609 standards.

Lead (0.1 %)	< 1000 ppm

RoHS-Compliant

Vishay Intertechnology Inc., hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU and amendment 2015/863/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Lead (0.1 %)	< 1000 ppm
Mercury (0.1 %)	< 1000 ppm
Cadmium (0.01 %)	< 100 ppm
Hexavalent chromium (0.1 %)	< 1000 ppm
Polybrominated biphenyls (PBB) (0.1 %)	< 1000 ppm
Polybrominated diphenyl ethers (PBDE) (0.1 %)	< 1000 ppm
Dibutyl phtalate (DBP) (0.1%)	< 1000 ppm
Bis(2-Ethylhexyl) phthalate (DEHP) (0.1%)	< 1000 ppm
Benzyl butyl phthalate (BBP) (0.1%)	< 1000 ppm
Diisobutyl phthalate (DIBP) (0.1%)	< 1000 ppm

Halogen-Free

Vishay follows halogen-free requirements as per IEC 61249-2-21 and JEDEC® JS709C standards.

Bromine (0.09 %)	< 900 ppm
Chlorine (0.09 %)	< 900 ppm
Sum of Bromine and Chlorine (0.15 %)	≤ 1500 ppm

VISHAY Green

- Antimony (< 900 ppm),
- Halogen-Free
- RoHS-Compliant without exemptions

Systems

Vishay acknowledges the following systems for the regulation of hazardous substances:

IEC 62474

Material Declaration for Products of and for the Electrotechnical Industry, with the list of declarable substances given therein (available at http://std.iec.ch/iec62474)

GADSL

The Global Automotive Declarable Substances List (GADSL), available at www.gadsl.org.

REACH

The REACH regulation (1907/2006/EC) and the related list of substances with very high concern (SVHC) for its supply chain, available at http://ehca.europa.eu/candidate-list-table.

The status of our products related to above mentioned systems can be checked at:
www.vishay.com/how/leadfree.

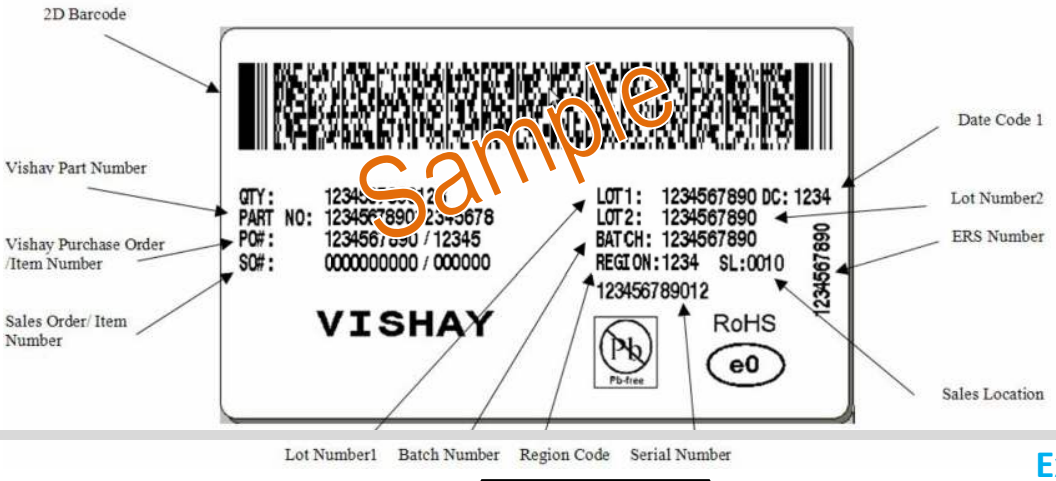
Conflict Minerals

Vishay pursues the elimination of conflict minerals from its supply chain, see the Conflict Minerals Policy at www.vishay.com/doc?49037.

CATEGORY	REQUIREMENT	DESCRIPTION	LOGO (DATASHEET)	LOGO (PRODUCT LABEL)
Lead (Pb)-Free Termination Lead (Pb)-free Completely Lead (Pb)-free	J-STD-609	Termination is lead (Pb)-free Series contains lead (Pb)-free and lead containing terminations Product is lead (Pb)-free Series contains lead (Pb)-free and lead containing product	  Available  Pb-free  Pb-free Available	  Pb-free
RoHS-Compliant	EU Directive 2011/65/EU, EU Directive 2015/863/EU	Compliant to RoHS Directive 2011/65/EU **Note:** *This datasheet provides information about parts that are RoHS-compliant and / or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.	RoHS COMPLIANT RoHS* Available	**RoHS**
Halogen-Free	IEC 61249-2-21 JEDEC JS709C	Halogen-free according to IEC 61249-2-21 definition and low halogen according to JEDEC JS709C definition. Series contains halogen-free according to IEC 61249-2-21 and JEDEC JS709C definition and halogen containing products	HALOGEN FREE HALOGEN FREE Available	**H/F**
Green	Vishay	Product is completely Vishay Green. Series contains Vishay Green and non-Vishay Green parts	GREEN (5-2008) GREEN (5-2008) Available	None

Note
• "Available" shall be used under the symbol in cases where one datasheet may contain two different parts (lead (Pb) -free and lead (Pb) containing)

Vishay Standard Label



Examples