

Document No: 99912

Revision: 21-August-2023

#### -: 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

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.

# **RoHS-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

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**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 <a href="https://www.vishay.com/doc?49037">www.vishay.com/doc?49037</a>.

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# **Datasheets and Labeling Requirements**

CATEGORY	REQUIREMENT	DESCRIPTION	LOGO (DATASHEET)	LOGO (PRODUCT LABEL)
Lead (Pb)-Free		Termination is lead (Pb)-free	Plo	
Termination Lead (Pb)-free		Series contains lead (Pb)-free and lead containing terminations	Available	(Pb)
Completely Lead (Pb)-free	J-STD-609	Product is lead (Pb)-free	Pb-free	PW
		Series contains lead (Pb)-free and lead containing product	Pb-free Available	Pb-free
		Compliant to RoHS Directive 2011/65/EU	RoHS COMPLIANT	
RoHS- Compliant	EU Directive 2011/65/EU, EU Directive 2015/863/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* Available	RoHS
Halogen-Free	alogen-Free IEC 61249-2-21 JEDEC JS709C	Halogen-free according to IEC 61249- 2-21 definition and low halogen according to JEDEC JS709C definition.	HALOGEN FREE	H/F
<b>3</b>		Series contains halogen-free according to IEC 61249-2-21 and JEDEC JS709C definition and halogen containing products	HALOGEN FREE Available	
Green	Vishay	Product is completely Vishay Green.	<u>GREEN</u> (5-2008)	None
		Series contains Vishay Green and non-Vishay Green parts	<b>GREEN</b> (5-2008) Available	

Note

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<sup>• &</sup>quot;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** 2D Barcode Date Code 1 Vishav Part Number OTY: 12345-7890/23-3678 PART NO: 12345-7890/23-3678 PO#: 123456/090/12345 SO#: 0000000000/000000 LOT1: 1234567890 LOT2: 1234567890 BATCH: 1234567890 Lot Number2 ERS Number Vishay Purchase Order REGION: 1234 SL:0010 /Item Number 123456789012 Sales Order/ Item VISHAÝ RoHS e0 Sales Location Lot Number1 Batch Number Region Code Serial Number **Examples** RoHS' Part is available as lead (Pb)-free and RoHS-compliant Part has terminations which are available as lead Part is lead (Pb)-free and (Pb)-free and it is RoHS RoHS-compliant COMPLIANT HALOGEN RoHS-compliant FREE GREEN Part is available as "Green" according to **RoHS** RoHS Vishay definition COMPLIANT HALOGEN COMPLIANT FREE FREE GREEN Part is lead (Pb)-free, Part is "Green" according to RoHS-compliant and Vishay definition halogen-free COMPLIANT HALOGEN **FREE** Part is available as lead (Pb)-free, RoHS-compliant Revision: 21-August-2023 Document No: 99912

and halogen-free

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