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Vishay

## Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH)

Dear customer,

the Vishay Aluminum Capacitor and Energy Storage part numbers / series as listed in the Annex do **NOT** contain any of the total of **211 substances** of the REACH Candidate List of Substances of Very High Concern (SVHC) in more than 0.1 % wt/wt as defined by the REACH Directive:

as published in ECHA/PR/08/38 of October 28, 2008; and as published in ECHA/PR/10/01 of January 13, 2010; and as published in ECHA/PR/10/05 of March 30, 2010; and as published in ECHA/PR/10/12 of June 18, 2010; and as published in ECHA/PR/10/26 of December 15, 2010; and as published in ECHA/PR/11/15 of June 20, 2011; and as published in ECHA/PR/11/26 of December 19, 2011; and as published in ECHA/PR/12/16 of June 18, 2012; and as published in ECHA/PR/12/39 of December 19, 2012; and as published in ECHA/PR/13/26 of June 20, 2013; and as published in ECHA/PR/13/40 of December 16, 2013; and as published in ECHA/PR/14/11 of June 16, 2014; and as published in ECHA/PR/14/18 of December 17, 2014; and as published in ECHA/PR/15/09 of June 15, 2015; and as published in ECHA/PR/15/18 of December 17, 2015; and as published in ECHA/PR/16/07 of June 20, 2016; and as published in ECHA/PR/17/02 of January 12, 2017; and as published in ECHA/PR/17/14 of July 10, 2017; and as published in ECHA/PR/18/01 of January 15, 2018; and as published in ECHA/PR/18/11 of June 27, 2018; and as published in ECHA/PR/19/01 of January 15, 2019; and as published in ECHA/PR/19/12 of July 16, 2019; and as published in ECHA/PR/20/02 of January 16, 2020; and as published in ECHA/PR/20/05 of June 25, 2020; and as published in ECHA/NR/21/05 of January 19, 2021.

http://echa.europa.eu/web/guest/candidate-list-table

The Vishay Aluminum Capacitor part numbers / series as listed in the Annex also do NOT contain any of the substances of the REACH Authorization List in the REACH Directive Annex XIV and of the REACH Restriction List in the REACH Directive Annex XVII.

This data is accurate to the best of our knowledge.

Gerald Tatschl

Senior Manager Product Marketing - Aluminum Capacitors Division REACH, RoHS, and Hazardous Substances Coordinator Aluminum Capacitors Division



## **ANNEX**

SERIES	REACH-211 COMPLIANT PART NUMBER
	MAL2013xxxxxE3
	MAL2036xxxxxE3
	MAL2038xxxxxE3
	MAL2046xxxxxE3
	MAL2047xxxxxE3
	MAL2048xxxxxE3
	MAL2097xxxxxE3
	MAL2116xxxxxE3
	MAL2134xxxxxE3
	MAL2136xxxxxE3 MAL2140xxxxxE3
Radial	MAL2140XXXXE3  MAL2142XXXXXE3
Hadiai	MAL2142xxxxE3  MAL2146xxxxxE3
	MAL2148xxxxxE3
	MAL2150xxxxxE3
	MAL2151xxxxxE3
<u> </u>	MAL2152xxxxxE3
	MAL2160xxxxxE3
	MAL2170xxxxxE3
	MAL2190xxxxxE3
	MAL2246xxxxxE3
	MAL2250xxxxxE3
	MAL2260xxxxxE3
	MAL2021xxxxxE3
	MAL2030xxxxxE3
	MAL2031xxxxxE3
	MAL2041xxxxxE3
	MAL2042xxxxxE3
	MAL2043xxxxxE3  MAL2118xxxxxE3
Axial	MAL2119xxxxxE3
- Alai	MAL2120xxxxxE3
	MAL2125xxxxxE3
	MAL2126xxxxxE3
	MAL2132xxxxxE3
	MAL2133xxxxxE3
	MAL2138xxxxxE3
	MAL2139xxxxxE3
	MAL214095xxxE3, 97xxxE3, 99xxxE3
	MAL214699xxxE3
	MAL215095xxxE3, 97xxxE3, 99xxxE3
	MAL215299xxxE3
	MAL21536xxxxE3
	MAL21537xxxxE3
_	MAL216099xxxE3
<u> </u>	MAL 2181077xxxE3
SMD —	MAL218197xxxE3  MAL2182xxxxxE3
<u> </u>	MAL2182XXXXXE3  MAL2183XXXXXE3
<u> </u>	MAL2183XXXXXE3  MAL2184XXXXXE3
<u> </u>	MAL2185xxxxxE3
<u> </u>	MAL2186xxxxxE3  MAL2186xxxxxE3
_	MAL219299xxxE3
	MAL2246xxxxxE3
<del>-</del>	MAL2250xxxxxE3
<del></del>	MAL2260xxxxxE3

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SERIES	REACH-211 COMPLIANT PART NUMBER
OEMES .	MAL2050xxxxxE3
	MAL2051xxxxxE3
	MAL2052xxxxxE3
	MAL2053xxxxxE3
	MAL2056xxxxxE3
	MAL2057xxxxxE3
	MAL2058xxxxxE3
	MAL2059xxxxxE3
	MAL2090xxxxxE3
	MAL2093xxxxxE3
	MAL2094xxxxxE3
	MAL2095xxxxxE3
SI, PW, and SL	MAL2096xxxxxE3
	MAL2156xxxxxE3
	MAL2157xxxxxE3
	MAL2158xxxxxE3
	MAL2159xxxxxE3
	MAL2162xxxxxE3
	MAL2163xxxxxE3
	MAL2193xxxxxE3
	MAL2198xxxxxE3
	MAL2199xxxxxE3
	MAL2256xxxxxE3
	MAL2257xxxxxE3
	MAL2259xxxxxE3
	MAL2299xxxxxE3
	MAL2101xxxxxE3
	MAL2102xxxxxE3
	MAL2103xxxxxE3
ST	MAL2104xxxxxE3
31	MAL2106xxxxxE3
	MAL2110xxxxxE3
	MAL2500xxxxxE3
	MAL2501xxxxxE3
	MAL2123xxxxxE3
SAL	MAL2128xxxxxE3
	MAL2196xxxxxE3
	MAL2220xxxxxE3
Double layer capacitors	MAL2225xxxxxE3
	MAL2230xxxxxE3
	MAL2235xxxxxE3
	MAL8043055xxE3
	MAL804313001E3
Accessories	MAL8043240xxE3
(clamps, cap nuts, washers)	MAL804323321E3
	MAL804324921E3



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SERIES	REACH-211 COMPLIANT PART NUMBER
Axial	34D (+ suffix "E3") <sup>(1)</sup>
	39D (+ suffix "E3") <sup>(1)</sup>
	53D (+ suffix "E3") <sup>(1)</sup>
	516D (all PNs)
Radial	515D (all PNs)
	517D (all PNs)
	757D (all PNs)
SI	80D (all PNs)
ST	36D (all PNs)
	36DX (all PNs)
	36DE (all PNs)
	36DY (all PNs)

## Note

<sup>(1)</sup> **IMPORTANT:** affected are only part numbers with suffix "E3". Example: 39D907G003EJ6E3 (part numbers without suffix "E3" contain lead (Pb). Consequently, these PNs are incompliant to REACH-191 directive and above)

VISHAY ROEDERSTEIN	
SERIES	REACH-211 COMPLIANT PART NUMBER
Radial	MALREKA and EKA (all PNs)
	MALREKB and EKB (all PNs)
	MALREKC and EKC (all PNs)
	MALREKE and EKE (all PNs)
	MALREKV and EKV (all PNs)
SMD	MALSECA and ECA (all PNs)
	MALSECL and ECL (all PNs)
	MALSECV and ECV (all PNs)
SI, PW, and SL	MALIEYH and EYH (all PNs)
	MALIEYK and EYK (all PNs)
	MALIEYN and EYN (all PNs)
	MALIEYV and EYV (all PNs)

VISHAY OS-CON	
SERIES	REACH-211 COMPLIANT PART NUMBER
SMD	94SVP (all PNs)
	94SVPD (all PNs)