



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 **219 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;
and as published in ECHA/NR/21/20 of July 8, 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
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REACH, RoHS, and Hazardous Substances Coordinator Aluminum Capacitors Division



ANNEX

VISHAY BCCOMPONENTS	
SERIES	REACH-219 COMPLIANT PART NUMBER
Radial	MAL2013xxxxE3
	MAL2036xxxxE3
	MAL2038xxxxE3
	MAL2046xxxxE3
	MAL2047xxxxE3
	MAL2048xxxxE3
	MAL2097xxxxE3
	MAL2116xxxxE3
	MAL2134xxxxE3
	MAL2136xxxxE3
	MAL2140xxxxE3
	MAL2142xxxxE3
	MAL2146xxxxE3
	MAL2148xxxxE3
	MAL2150xxxxE3
	MAL2151xxxxE3
	MAL2152xxxxE3
	MAL2160xxxxE3
	MAL2170xxxxE3
	MAL2190xxxxE3
MAL2246xxxxE3	
MAL2250xxxxE3	
MAL2260xxxxE3	
Axial	MAL2021xxxxE3
	MAL2030xxxxE3
	MAL2031xxxxE3
	MAL2041xxxxE3
	MAL2042xxxxE3
	MAL2043xxxxE3
	MAL2118xxxxE3
	MAL2119xxxxE3
	MAL2120xxxxE3
	MAL2125xxxxE3
	MAL2126xxxxE3
	MAL2132xxxxE3
	MAL2133xxxxE3
	MAL2138xxxxE3
MAL2139xxxxE3	
SMD	MAL214095xxxE3, 97xxxE3, 99xxxE3
	MAL214699xxxE3
	MAL215095xxxE3, 97xxxE3, 99xxxE3
	MAL215299xxxE3
	MAL21536xxxE3
	MAL21537xxxE3
	MAL216099xxxE3
	MAL218097xxxE3
	MAL218197xxxE3
	MAL2182xxxxE3
	MAL2183xxxxE3
	MAL2184xxxxE3
	MAL2185xxxxE3
	MAL2186xxxxE3
	MAL219299xxxE3
	MAL2246xxxxE3
MAL2250xxxxE3	
MAL2260xxxxE3	



VISHAY BCCOMPONENTS	
SERIES	REACH-219 COMPLIANT PART NUMBER
SI, PW, and SL	MAL2050xxxxxE3
	MAL2051xxxxxE3
	MAL2052xxxxxE3
	MAL2053xxxxxE3
	MAL2056xxxxxE3
	MAL2057xxxxxE3
	MAL2058xxxxxE3
	MAL2059xxxxxE3
	MAL2090xxxxxE3
	MAL2093xxxxxE3
	MAL2094xxxxxE3
	MAL2095xxxxxE3
	MAL2096xxxxxE3
	MAL2156xxxxxE3
	MAL2157xxxxxE3
	MAL2158xxxxxE3
	MAL2159xxxxxE3
	MAL2162xxxxxE3
	MAL2163xxxxxE3
	MAL2193xxxxxE3
	MAL2198xxxxxE3
	MAL2199xxxxxE3
	MAL2256xxxxxE3
MAL2257xxxxxE3	
MAL2259xxxxxE3	
MAL2299xxxxxE3	
ST	MAL2101xxxxxE3
	MAL2102xxxxxE3
	MAL2103xxxxxE3
	MAL2104xxxxxE3
	MAL2106xxxxxE3
	MAL2110xxxxxE3
	MAL2500xxxxxE3
	MAL2501xxxxxE3
SAL	MAL2123xxxxxE3
	MAL2128xxxxxE3
Double layer capacitors	MAL2196xxxxxE3
	MAL2220xxxxxE3
	MAL2225xxxxxE3
	MAL2230xxxxxE3
	MAL2235xxxxxE3
Accessories (clamps, cap nuts, washers)	MAL8043055xxE3
	MAL804313001E3
	MAL8043240xxE3
	MAL804323321E3
	MAL804324921E3



VISHAY SPRAGUE	
SERIES	REACH-219 COMPLIANT PART NUMBER
Axial	34D (+ suffix "E3") ⁽¹⁾
	39D (+ suffix "E3") ⁽¹⁾
	53D (+ suffix "E3") ⁽¹⁾
Radial	516D (all PNs)
	515D (all PNs)
	517D (all PNs)
SI	757D (all PNs)
	80D (all PNs)
ST	36D (all PNs)
	36DX (all PNs)
	36DE (all PNs)
	36DY (all PNs)

Note

⁽¹⁾ **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-219 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-219 COMPLIANT PART NUMBER
SMD	94SVP (all PNs)
	94SVPD (all PNs)