

REACH Declaration

Knowles Novacap is a manufacturer of ceramic electronic capacitors. By definition we are a "downstream user" as far as the REACH directive is concerned.

The articles we supply are a ceramic or glass matrix and are non-chemical products which will not release harmful substances and present no hazard to humans or the environment under normal and reasonable handling and use.

Knowles Novacap is therefore not obligated to register with the European Agency for Chemicals "ECHA". Knowles Novacap hereby declares that the products identified below as REACH compliant fully comply with the European Union's Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 Dec 2006 concerning the Registration, Evaluation Authorization, and Restriction of Chemicals (REACH).

The products identified below as REACH compliant do not contain any of the Substances of Very High Concern (SVHC) above the specified concentrations, as defined in Article 57 and Annex XIV (including all amendments).

The following products identified below as REACH compliant do not contain any of the restricted substances, as defined in Article 67 and Annex XVII (including all amendments). Note product may contain Nickel as an undercoat to the plating finish which is not intended to come into contact with the skin.

We shall monitor all changes to this Directive and Annexes XIV and XVII, and ensure that our REACH compliant products continue to be compliant with all future requirements and amendments.

Number of Substances on the Candidate List: 205 (Latest update: Jan 16, 2020)

The candidate list can be found at the following webpage: <http://echa.europa.eu/web/guest/candidate-list-table>

Products covered: REACH compliant items listed below
Product description: Ceramic Capacitors

The following Knowles Novacap product families are REACH compliant and do not contain reportable Substances of Very High Concern (SVHC). These product families include Lead (Pb)-free capacitors with dielectric codes AH, BB, BL, BN, BW, CF, M, NA, Q, RB, RC, RD, RE, RF, RG, RL, RN, RS, RT, RU, RV, UL and with termination codes B, C, FR, K, N, NG, PR, SR.

The following Knowles DLI brand product families are REACH compliant and do not contain reportable Substances of Very High Concern (SVHC). These product families include Lead (Pb)-free capacitors with dielectric codes AH, CF, BL, NA, UL and with termination codes M, P, Q, W, Z.

The following Knowles Novacap product families are not REACH compliant. Knowles Novacap Capacitors with dielectric codes B, C, D, E, F, G, J, K, L, N, S, T, U, V, or with termination codes D, E, Y, or leaded parts with Lead (Pb) bearing solder. These components contain over 1000 PPM by weight of Lead (Pb) Compounds. Alternate, Lead (Pb)-free capacitors are available and are designated by dielectric code and termination codes listed above.

The following Knowles DLI product families are not REACH compliant. Capacitors with termination codes U, Y, V or leaded parts with Lead (Pb) bearing solder. These components contain over 1000 PPM by weight of Lead (Pb) Compounds. Alternate, Lead (Pb)-free capacitors are available and are designated by dielectric code and termination codes listed above.

Disclosure for Knowles Novacap Capacitors with dielectric codes P, Y, and Z these components contain up to 70% by weight of Lead (Pb) Oxide CAS # 1317-36-8. There are no substitute Lead (Pb)-free capacitors available for these dielectrics.

In most cases for Lead (Pb) containing product, the Lead (Pb) substance is chemically combined in a ceramic or glass matrix and presents no hazard to humans or the environment under normal handling and use. Parts with Tin (Sn)/Lead (Pb) plating finishes or leaded parts with Lead (Pb) bearing solder have exposed Lead (Pb) and should be handled appropriately. Any excess or unused capacitors may be returned for recycling to Knowles Novacap; please contact our sales department to make arrangements.

The above statements fulfil the communication requirements stated in REACH, Article 33.

Bob Nelson
Novacap Engineering Manager



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