

To Our Customers

## Survey report about SVHC 233

1. The capacitor types / series shown in Table-1 do not contain SVHC 233 substances at a concentration of 0.1 wt% or higher.

Table-1: SVHC 233 Non-contained product list

Type of capacitors	Series
Large Can Aluminum Electrolytic Capacitors (Snap-in Terminal Type, For Audio Equipment)	ALL
Conductive Polymer Aluminum Solid Electrolytic Capacitors	R**
Electric Double Layer Capacitors (Snap-in Terminal Type)	JJC
Plastic Film Capacitors	QXK-(ZH),QXK,QXP,QXT,QXL,QAQ,QAP

2. The capacitor types / series shown in Table 2 contain SVHC 233 substances at a concentration of 0.1 wt% or more.

Table-2: SVHC 233 contained product list

Type of capacitors	Series	SVHC	CAS No. [Decision No.]	Material name that contains SVHC
Chip Aluminum Electrolytic Capacitors	ALL	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [DBMC]	119-47-1 [D(2021)10043-DC]	Rubber end seal
Miniature Aluminum Electrolytic Capacitors	ALL	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [DBMC]	119-47-1 [D(2021)10043-DC]	Rubber end seal
Conductive Polymer Hybrid Aluminum Electrolytic Capacitors	ALL	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [DBMC]	119-47-1 [D(2021)10043-DC]	Rubber end seal
Conductive Polymer Aluminum Solid Electrolytic Capacitors	P**	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [DBMC]	119-47-1 [D(2021)10043-DC]	Rubber end seal
Electric Double Layer Capacitors	JUM,JUW, JUK,JUA	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [DBMC]	119-47-1 [D(2021)10043-DC]	Rubber end seal
Aluminum Electrolytic Capacitors (Screw terminal type)	LNR,LNX,LNK,LNC, LQR,LNY,LNT,LNU	Bis(2-ethylhexyl) phthalate [DEHP](※1)	117-81-7 [ED/67/2008]	Sleeve (PVC)
Electric Double Layer Capacitors (Screw terminal type)	JJD,JJL	Bis(2-ethylhexyl) phthalate [DEHP](※1)	117-81-7 [ED/67/2008]	Sleeve (PVC)
Plastic Film Capacitors	QYX	4,4'-Diaminodiphenylmethane / 4,4'-Methylenedianiline[MDA]	101-77-9 [ED/67/2008]	Coating resin
	EEC(※2)	Dibutyl phthalate[DBP]	84-74-2 [ED/67/2008]	Coating resin

(※1) DEHP is not contained from the product in January 2017.

(※2) DBP is not contained from the product in January 2019 .

For the other products such as customized capacitors and function modules, please contact us separately.

Our products: Standard capacitors listed in catalogue No. CAT.8100L (English version), CAT.1000K(Japanese version)  
SVHC 233: 233 substances published by January 17th, 2023 from ECHA (European Chemical Agency) as substances of very high concern (SVHC) in accordance with Article 59 (10) of the REACH Regulation.

Printed Name: Kenichi Okamoto  
Title: Deputy General Manager  
Division: Nichicon Corporation Quality Assurance Division  
Date: March 30th, 2023

Signature

