

## **Constitution Materials List**

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Product	I antalum Capacitor	Series	TCP series

This item is in compliance with RoHS.

Pb Free type

[42Alloy frame / SnAgCu coating terminal]

Mass: 9.00 mg

No.	Part name	Substance name	CAS No.	Mass (mg)	Contents per part (%)	Contents per all (%)
1	Lead frame	Iron(Fe)	7439-89-6	1.44	52.86	16.0028
		Nickel(Ni)	7440-02-0	1.038	38.09	11.53
		Copper(Cu)	7440-50-8	0.25	9.05	2.74
2	External surface coating	Tin(Sn)	7440-31-5	0.11	95.94	1.26
		Silver(Ag)	7440-22-4	0.0041	3.47	0.045
		Copper(Cu)	7440-50-8	0.0007	0.59	0.0077
3	Mold compound	Epoxy resin	-	0.28	9	3.12
		Antimony trioxide	1309-64-4	0.047	1.5	0.52
		Phenol novolak	9003-35-4	0.14	4.5	1.56
		Organic phosphorus compounds	-	0.012	0.4	0.14
		Halogen aromatic hydrocarbon	-	0.047	1.5	0.52
		Silicone compounds	60676-86-0	2.59	83.09	28.77
		Chromium(trivalent)	-	0.00031	0.01	0.0035
4	Capacitor element	Tantalum(Ta)	7440-25-7	2.26	78.67	25.14
		Manganese dioxide(MnO2)	1313-13-9	0.44	15.26	4.88
		Carbon	-	0.012	0.4	0.13
		Silver(Ag)	7440-22-4	0.09	3.12	1
		Copper(Cu)	7440-50-8	0.059	2.04	0.65
		Aromatic polyamide resin	1	0.015	0.51	0.16
5	Conductive adhesive	Silver(Ag)	7440-22-4	0.072	55	0.8
		Copper(Cu)	7440-50-8	0.047	36	0.52
		Epoxy resin	-	0.0078	6	0.087
		Phenol resin	-	0.0039	3	0.044
6	Inhibitor for absorption	FEP	25067-11-2	0.033	100	0.37
				8.99881		100

Constitution Materials List is composed using the information provided by the raw material suppliers. However, due to the confidentiality of some suppliers, some information may not provided fully. Therefore we cannot guarantee that all chemical substances information are listed in it.

<sup>\*</sup> The content shown is the representative value content.

X Impurities are not specified.

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