

Constitution Materials List

Product	Tantalum Capacitor	Series	TCTAL series
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- This item is in compliance with RoHS.
- Pb Free Type/Halogen Free Resin Type
【42Alloy frame/SnCu coating terminal】

Mass: 29.00 mg

No.	Part name	Substance name	CAS No.	Mass (mg)	Contents per part (%)	Contents per all (%)
1	Lead frame	Iron(Fe)	7439-89-6	3.33	52.86	11.49
		Nickel(Ni)	7440-02-0	2.4	38.09	8.28
		Copper(Cu)	7440-50-8	0.57	9.05	1.97
2	External surface coating	Tin(Sn)	7440-31-5	0.19	97.87	0.66
		Copper(Cu)	7440-50-8	0.0041	2.13	0.014
3	Mold compound	Epoxy resin	-	0.087	10.001	0.3
		Phenol novolak	-	0.048	5.5	0.16
		Organic phosphorus compounds	-	0.0003	0.035	0.0011
		Metal hydroxide	-	0.17	19	0.57
		Carbon	1333-86-4	0.00087	0.1	0.003
		dye	-	0.00021	0.024	0.0007
		Silicone compounds	60676-86-0	0.57	65.14	1.95
		Chromium(trivalent)	-	0.0017	0.2	0.0062
4	Capacitor element	Tantalum(Ta)	7440-25-7	16.73	78.67	57.66
		Manganese dioxide(MnO ₂)	1313-13-9	3.24	15.26	11.19
		Carbon	-	0.085	0.4	0.29
		Silver(Ag)	7440-22-4	0.66	3.12	2.29
		Copper(Cu)	7440-50-8	0.43	2.04	1.5
		Aromatic polyamide resin	-	0.11	0.51	0.37
5	Conductive adhesive	Silver(Ag)	7440-22-4	0.2	55	0.7
		Copper(Cu)	7440-50-8	0.13	36	0.46
		Epoxy resin	-	0.022	6	0.076
		Phenol resin	-	0.011	3	0.038
6	Inhibitor for absorption	FEP	25067-11-2	0.0061	100	0.021
				28.99628		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 be provided fully.
Therefore we cannot guarantee that all chemical substances information are listed in it.
- ※ The content shown is the representative value content.
- ※ Impurities are not specified.

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