

# Constitution Materials List

Product	Tantalum Capacitor	Series	TCM 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: 6.00 mg

No.	Part name	Substance name	CAS No.	Mass (mg)	Contents per part (%)	Contents per all (%)
1	Lead frame	Iron(Fe)	7439-89-6	0.58	52.86	9.67
		Nickel(Ni)	7440-02-0	0.42	38.09	6.97
		Copper(Cu)	7440-50-8	0.099	9.05	1.66
2	External surface coating	Tin(Sn)	7440-31-5	0.026	97.87	0.43
		Copper(Cu)	7440-50-8	0.00056	2.13	0.0095
3	Mold compound	Epoxy resin	29690-82-2	0.015	9.52	0.26
		Phenol novolak	9003-35-4	0.0089	5.5	0.15
		Organic phosphorus compounds	-	0.00049	0.3	0.0081
		Metal hydroxide	21645-51-2	0.016	10.01	0.27
		Carbon	-	0.00049	0.3	0.0081
		Silicone compounds	60676-86-0	0.12	74.37	2.015
4	Capacitor element	Tantalum(Ta)	7440-25-7	3.66	78.67	61.061
		Manganese dioxide(MnO <sub>2</sub> )	1313-13-9	0.71	15.26	11.84
		Carbon	-	0.019	0.4	0.31
		Silver(Ag)	7440-22-4	0.15	3.12	2.42
		Copper(Cu)	7440-50-8	0.095	2.04	1.58
		Aromatic polyamide resin	-	0.024	0.51	0.4
5	Conductive adhesive	Silver(Ag)	7440-22-4	0.01	55	0.17
		Copper(Cu)	7440-50-8	0.0067	36	0.11
		Epoxy resin	-	0.0011	6	0.019
		Phenol resin	-	0.00056	3	0.0093
6	Inhibitor for absorption	PFA	26655-00-5	0.038	100	0.63
				6.0008		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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