


MATERIAL DECLARATION



Material Number	TC33-1 (RC≥100KΩ)			
Product Line	Trimmer			
Compliance Date	RoHS Directive 2015/863 Mar. 31, 2015 and Annex. 8-16-2004 Updated : 11/26/2024			
RoHS Compliant	Yes	MSL	1	

NO	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Mass % of total unit wt. Material	Subpart mass of total wt. (%)
1	SUBSTRATE	ALUMINA	0.0131	Magnesium oxide	1309-48-4	0.9	0.385	42.782
				Silica, Crystalline	14808-60-7	2.8	1.198	
				Aluminum oxide	1344-28-1	96	41.071	
				Calcium oxide	1305-78-8	0.3	0.128	
2	ELECTRODE	GLASS Ag-Pd	0.0004	Copper (metallic)	7440-50-8	0.63	0.008	1.306
				Palladium	7440-05-3	3.8	0.050	
				Silver	7440-22-4	92	1.202	
				Glass without declarable substances	-	1	0.013	
				Misc., not to declare	-	2.57	0.034	
3	RESISTANCE ELEMENT	METAL GLAZED RESISTORS	0.0006	Dicopper oxide	1317-39-1	0.23	0.005	1.960
				Copper oxide	1317-38-0	1.17	0.023	
				Silver	7440-22-4	4.77	0.093	
				Tin oxide	18282-10-5	1.53	0.030	
				Hafnium(IV) oxide	12055-23-1	0.51	0.010	
				Ruthenium(IV) oxide	12036-10-1	19.95	0.391	
				Glass without declarable substances	Trade secret	53.68	1.052	
				Zirconium oxide	1314-23-4	18.16	0.356	

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4	TERMINAL CONNECTOR	SOLDER Sn-3Ag-0.5Cu	0.001	Lead	7439-92-1	0.0499	0.002	3.266
				Antimony	7440-36-0	0.05	0.002	
				Arsenic, elemental	7440-38-2	0.03	0.001	
				Bismuth	7440-69-9	0.1	0.003	
				Copper (metallic)	7440-50-8	0.5	0.016	
				Silver	7440-22-4	3	0.098	
				Tin	7440-31-5	96.2701	3.144	
5	TERMINAL	STEEL	0.005521	Iron	7439-89-6	99.55	17.950	18.031
				Manganese	7439-96-5	0.3	0.054	
				Carbon	7440-44-0	0.075	0.014	
				Phosphorus	7723-14-0	0.05	0.009	
				Sulphur	7704-34-9	0.025	0.005	
6	TERMINAL GROUND PLATING	Ni	0.000094	Nickel	7440-02-0	99.75	0.306	0.307
				Misc., not to declare	-	0.25	0.001	
7	TERMINAL PLATING	Sn	0.000205	Tin	7440-31-5	99.75	0.668	0.669
				Misc., not to declare	-	0.25	0.002	
8	MOVING CONTACT	STAINNLESS STEEL	0.0088	Nickel	7440-02-0	9.25	2.658	28.739
				Silicon	7440-21-3	0.5	0.144	
				Iron	7439-89-6	70.1725	20.167	
				Manganese	7439-96-5	1	0.287	
				Chromium	7440-47-3	19	5.460	
				Carbon	7440-44-0	0.04	0.011	
				Phosphorus	7723-14-0	0.0225	0.006	
				Sulphur	7704-34-9	0.015	0.004	
9	INSULATION	URETHANE ACRYLATE	0.0009	Further Additives, not to declare	-	3	0.088	2.939
				Acrylate Urethane Oligomer	Trade secret	97	2.851	
Total weight			0.03062					

This Document was updated on:11/26/2024

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.