


# MATERIAL DECLARATION SHEET



Material Number	3223 (250Ω to 50KΩ)			
Product Line	Trimmer			
Compliance Date	3-1-2005			
RoHS Compliant	Yes DC 509	MSL		

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material	CASRN	Material Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Contact Spring	Ni/Ag	0.001	Nickel	7440-02-0	18	0.1714	0.95
				Copper	7440-50-8	55	0.5238	
				Zinc	7440-66-6	27	0.2571	
2	Housing	Nylon	0.044	Polyamide 9T	169284-22-4	43	18.0190	41.90
				Brominated polystyrene	88497-56-7	23	9.6381	
				Glass fiber	65997-17-3	34	14.2476	
3	Rotor	PPAI	0.005	Polyphthalamide	27135-32-6	66	3.1429	4.76
				Glass fiber	65997-17-3	33	1.5714	
				Titanium dioxide	13463-67-7	1	0.0476	
4	Potting	Epoxy	0.012	Epoxy resin	25068-38-6	64	7.3143	11.43
				Antimony trioxide	1309-64-4	11	1.2571	
				Aluminum oxide	1344-28-1	10	1.1429	
				Kaolin clay	1332-58-7	6	0.6857	
				Mg aluminosilicate	1302-88-1	9	1.0286	
5	Shaft	Brass	0.011	Copper	7440-50-8	60.9	6.38	10.48
				Zinc	7440-66-6	35	3.67	
				Lead	7439-92-1	3.1	0.33	
				Nickel (plating)	7440-02-0	1	0.1	
6	Substrate	Ceramic	0.0194	Aluminum Oxide	1344-28-1	96	17.7371	18.48
				Silicon oxide	7631-86-9	2	0.3695	
				Magnesium oxide	1309-48-4	1	0.1848	
				Calcium oxide	1305-78-8	1	0.1848	

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7	Termination Ink	Ink	0.0003	Silver	7440-22-4	75	0.2143	0.29
				Palladium	7440-05-3	10	0.0286	
				Dibismuth-trioxide	1304-76-3	10	0.0286	
				Ruthenium (IV) oxide	12036-10-1	1	0.0029	
				Silicon dioxide	7631-86-9	1	0.0029	
				Nickel-monoxide	1313-99-1	1	0.0029	
				Lead-monoxide	1317-36-8	2	0.0058	
8	Resistive Ink	Ink	0.0003	Ruthenium Dioxide	12036-10-1	35	0.1000	0.29
				Calcium Silicate borate glass	59794-15-9	46	0.1314	
				Silver	7440-22-4	7	0.0200	
				Titanium dioxide	13463-67-7	5	0.0143	
				Manganese dioxide	1313-13-9	6	0.0171	
				Cuprous oxide	1317-39-1	1	0.0029	
9	Terminals	Copper	0.011	Copper	7440-50-8	100	10.4762	11.43
		Coating	0.001	Tin	7440-31-5	100	0.9524	
		Total Weight	0.105					

**This Document was updated on: 1-3-2012**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: 6c – copper alloy containing up to 4% lead by weight; 7(c)-I – electrical and electronic components containing lead in glass or ceramic...