


# MATERIAL DECLARATION



Material Number	3224 (250Ω to 20kΩ)			
Product Line	Trimmer			
Compliance Date	3-1-2005			
RoHS Compliant	Yes DC0509	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Contact Spring	Ni/Ag	0.002	Nickel	7440-02-0	18	0.028	1.152
				Copper	7440-50-8	55	0.317	
				Zinc	7440-66-6	27	0.085	
2	Housing	PEEK	0.071	Polyetheretherketone	31694-16-3	70	26.021	37.173
				Glass Fiber	65997-17-3	30	11.152	
3	Rotor	PA9T	0.008	PA 9T	169284-22-4	43	1.801	4.188
				brominated polystyrene	88497-56-7	23	0.963	
				glass fiber	65997-17-3	34	1.424	
4	Potting	Epoxy	0.029	Cycloaliphatic epoxide	-	40	6.073	15.183
				Polyetherpolyol resins	39072-02-1	15	2.277	
				Silicon dioxide	67762-90-7	25	3.796	
				Hydrated alumina	21645-51-2	20	3.037	
5	Shaft	Brass	0.0124	Copper	7440-50-8	61.5	3.864	6.283
				Zinc	7440-66-6	35.4	2.224	
				Lead	7439-92-1	3.1	0.195	
6	Substrate	Alumina	0.049	Aluminum Oxide	1344-28-1	96	24.628	25.654
				Silicon dioxide	7631-86-9	2	0.513	

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				Magnesium oxide	1309-48-4	1	0.257	
				Calcium oxide	1305-78-8	1	0.257	
7	Termination Ink Top	Ink	0.001	Silver	7440-22-4	63	0.330	1.047
				palladium	7440-05-3	2	0.131	
				Bismuth trioxide	1304-76-3	9	0.047	
				copper oxide	1317-39-1	1	0.005	
				boron	7440-42-8	1	0.005	
				barium	7440-39-3	1	0.005	
8	Termination Ink Bottom	Ink	0.001	Silver	7440-22-4	93.1	0.487	
				palladium	7440-05-3	3.1	0.016	
				copper oxide	1317-39-1	1.2	0.006	
				glass w/o declarables	65997-17-3	2	0.010	
				barium	7440-39-3	0.3	0.002	
				boron	7440-42-8	0.3	0.002	
9	Resistive Ink	Ink	0.0015	Silver	7440-22-4	9	0.071	0.785
				Boron	7440-42-8	10	0.079	
				Silicon	7440-21-3	10	0.079	
				Calcium	7440-70-2	10	0.079	
				Ruthenium dioxide	12036-10-1	42	0.330	
				Barium	7440-39-3	2	0.016	
				Carbon	7440-44-0	1.5	0.012	
				Titanium	7440-32-6	2	0.016	
				Copper	7440-50-8	5.0	0.039	
				Aluminum	7429-90-5	5.5	0.043	
				Zinc	7440-66-6	1.5	0.012	
				Magnesium	7439-95-4	1	0.008	
10	Terminals	Copper	0.015	Carbon	7440-44-0	0.5	0.004	
10	Terminals	Copper	0.015	Copper	7440-50-8	100	7.853	7.853
11	Coating	Solder	0.001	Tin	7440-31-5	100	0.524	0.524

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12	Lubricant	Lubricant	0.0001	Polydimethylsiloxane	63148-62-9	58	0.030	0.052
				Dimethyl siloxane	70131-67-8	9.5	0.005	
				Silica, amorphous	7631-86-9	12.5	0.007	
				siloxane/silicones	63148-56-1	14	0.007	
				tetrafluoroethane	9002-84-0	6	0.003	
		Total weight	0.191					

**This Document was updated on: 1/16/2024**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: Brass shaft may contain lead – RoHS exemption 6c – copper alloy containing up to 4% lead by weight.