

MATERIAL DECLARATION



Material Number	3224 (10Ω to 200Ω)			
Product Line	Trimmer			
Compliance Date	3-1-2005			
RoHS Compliant	Yes DC 0509	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	0.0003	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	Benzenedicarboxylic acid, polymer with 2-methyl-1, 8-octanediamine, 1,9-nonanediamine	169284-22-4	56.09	2.349	4.188
				GF-Fibre	-	43.91	1.839	
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	3.993	6.283
				Zinc	7440-66-6	35.4	2.298	
				Lead	7439-92-1	3.1	0.201	
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	82	0.429	1.047
				Barium	7440-39-3	2	0.010	
				Boron	7440-42-8	2	0.010	
				Bismuth	7440-69-9	14	0.073	
				Silver	7440-22-4	93.3	0.488	
8	Termination Ink Bottom	Ink	0.001	Palladium	7440-05-3	3.1	0.016	0.785
				Copper	7440-50-8	1.2	0.006	
				Bismuth	7440-69-9	2.4	0.013	
				Silver	7440-22-4	25	0.196	
9	Resistive Ink	Ink	0.0015	Palladium	7440-05-3	30	0.236	0.785
				Barium	7440-39-3	21	0.165	
				Boron	7440-42-8	20	0.157	
				Manganese	7439-96-5	4	0.031	
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
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: 10-3-2019

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.