

MATERIAL DECLARATION SHEET

BOURNS®

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	0.0003	Nickel	7440-02-0	18	0.157	1.102
			0.0012	Copper	7440-50-8	55	0.630	
			0.0006	Zinc	7440-66-6	27	0.315	
2	Housing	PEEK	0.071	Polyetheretherketone	31694-16-3	70	26.076	37.251
				Glass Fiber	65997-17-3	30	11.175	
3	Rotor	PPAI	0.008	PPA(Polyphthalamide)	24938-03-2	100	4.197	4.197
4	Potting	Epoxy	0.029	Cycloaliphatic epoxide	Trade secret	40	6.086	15.215
				Polyetherpolyol resins	39072-02-1	15	2.282	
				Silicon dioxide	67762-90-7	25	3.804	
				Hydrated alumina	21645-51-2	20	3.043	
5	Shaft	Brass	0.012	Copper	7440-50-8	61.49	3.871	6.296
				Zinc	7440-66-6	35.4	2.229	
				Lead	7439-92-1	3.1	0.195	
				Nickel (plating)	7440-02-0	0.01	0.001	
6	Substrate	Alumina	0.049	Aluminum Oxide	1344-28-1	96	24.680	25.708
				Manganese oxide	1309-48-4	1	0.514	
				Silicon oxide	7631-86-9	2	0.257	
				Calcium oxide	1305-78-8	1	0.257	
7	Termination Ink	Ink	0.002	Silver	7440-22-4	82	0.860	1.049
				Barium oxide	1304-28-5	2	0.021	
				Boron oxide	1303-86-2	2	0.021	
				Bismuth trioxide	1304-76-3	14	0.147	

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8	Resistive Ink	Ink	0.0015	Ruthenium Dioxide	12036-10-1	35	0.276	0.787
				Calcium Silicate borate glass	59794-15-9	46	0.362	
				Silver	7440-22-4	7	0.055	
				Titanium dioxide	13463-67-7	5	0.039	
				Manganese dioxide	1313-13-9	6	0.047	
				Cuprous oxide	1317-39-1	1	0.008	
9	Terminals	Copper	0.015	Copper	7440-50-8	100	7.870	7.870
10	Coating	Solder	0.001	Tin	7440-31-5	100	0.525	0.525
		Total weight	0.1906					

This Document was updated on: 7-6-2012

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Please see RoHS Certificate of Compliance for exemptions used.