


# MATERIAL DECLARATION SHEET



Material Number	3313 (250Ω to 25KΩ)			
Product Line	Trimmer			
Compliance Date	3-8-2005			
RoHS Compliant	Yes DC 510	MSL	1	

No.	Construction Element (Subpart)	Homogeneous Material	Material Weight (g)	Homogeneous Material		Material Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substance	CASRN			
1	Contact Spring	Ni/Ag	0.0009	Nickel	7440-02-0	18	0.135	0.75
				Copper	7440-50-8	55	0.411	
				Zinc	7440-66-6	27	0.202	
Rotor	Nylon	0.074	Liquid Crystal Polymer	70679-92-4	60	36.908	61.51	
			Glass Fiber	65997-17-3	40	24.605		
3	Seal Ring	Rubber	0.0001	Silicon Rubber	112926-00-8	100	0.083	0.08
4	Housing	Nylon	0.0125	Polyamide 46	32131-17-2	39.5	4.104	10.39
				Glass Fiber	65997-17-3	40	0.571	
				Antimony Trioxide	1309-64-4	5.5	1.559	
				Tribromopolystyrene	57137-10-7	15	10.391	
5	Lead Frame	Copper Alloy	0.0117	Copper	7440-50-8	100	9.726	10.56
		Plating	0.001	Tin	7440-31-5	100	9.726	
6	Substrate	Ceramic	0.019	Aluminum Oxide	1344-28-1	96	15.162	15.79
				Silicon Dioxide	7631-86-9	2	0.316	
				Magnesium Oxide	1309-48-4	1	0.158	
				Calcium Oxide	1305-78-8	1	0.158	
7	Termination Ink	Ink	0.0004	Silver	7440-22-4	50.5	0.168	0.33
				Palladium	7440-05-3	34.1	0.113	
				Platinum	7440-06-4	3.1	0.010	
				Manganese	7439-96-5	1	0.003	
				Bismuth	7440-69-9	8.9	0.030	
				Boron	7440-42-8	1.5	0.005	

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8	Resistive Ink	Ink	0.0002	Silicon	7440-21-3	0.9	0.003	0.17
				Ruthenium Dioxide	12036-10-1	35	0.058	
				Silicon	7440-21-3	16	0.027	
				Boron	7440-42-8	15	0.025	
				Calcium	7440-70-2	15	0.025	
				Silver	7440-22-4	7	0.012	
				Titanium	7440-32-6	5	0.008	
				Manganese	7439-96-5	6	0.010	
				Copper	7440-50-8	1	0.002	
9	Lubricant	Lube	0.0005	Polydimethylsiloxane	63148-62-9	24	0.100	0.42
				Silica, Amorphous	7631-86-9	3	0.012	
				Siloxane/Silicones	63148-56-1	73	0.303	
		Total Weight	0.1203					

**This Document was updated on: 12-4-2023**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Halogen Free Model available GK2 version for single-slot rotor and GL5 for cross-slot rotor