


MATERIAL DECLARATION SHEET



Material Number	3313 HF (10Ω to 200Ω)			
Product Line	Trimmer GK2 and GL5			
Compliance Date	3-8-2005			
RoHS Compliant	Yes DC 510	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. (%)
				Substance				
1	Contact Spring	Ni/Ag	0.0009	Nickel	7440-02-0	18	0.135	0.75
				Copper	7440-50-8	65	0.486	
				Zinc	7440-66-6	17	0.127	
2	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	Silicone Rubber	112926-00-8	100	0.083	0.08
4	Housing	Nylon	0.0125	Polyphthalamide resin	27135-32-6	50	5.195	10.39
				Glass fibers	65997-17-3	30	3.117	
				Phosphorus-based flame retardant (not red P)	trade secret	17.5	1.818	
				Pigment	trade secret	2.5	0.260	
5	Lead Frame	Copper Alloy	0.0117	Copper	7440-50-8	100	9.726	10.56
		Plating	0.001	Tin	7440-31-5	100	0.831	
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	

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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 oxide	1313-13-9	1	0.003	
				Bismuth trioxide	1304-76-3	8.9	0.030	
				Boron oxide	1303-86-2	1.5	0.005	
				Silicon oxide	7631-86-9	0.9	0.003	
8	Resistive Ink	Ink	0.0002	Silver	7440-22-4	25	0.042	0.17
				Palladium	7440-05-3	30	0.050	
				Barium borate glass	13701-59-2	41	0.068	
				Manganese dioxide	1313-13-9	4	0.007	
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: 4-25-2012

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, if any.
3. Halogen Free Model available GK2 version for single-slot rotor and GL5 for cross-slot rotor.