


MATERIAL DECLARATION SHEET

Material Number	3299 (10Ω to 250Ω) LF			
Product Line	Trimmer			
Compliance Date	3-9-2011			
RoHS Compliant	Yes DC 509	MSL	N/A	

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	Stainless Steel	0.007	Carbon	7440-44-0	0.18	0.0015	0.84
				Manganese	7439-96-5	2	0.0167	
				Phosphorus	7723-14-0	0.045	0.0004	
				Sulfur	7704-34-9	0.03	0.0003	
				Silicon	7440-21-3	0.75	0.0063	
				Chromium	7440-47-3	17	0.1421	
				Nickel	7440-02-0	8	0.0669	
				Iron	7439-89-6	71.995	0.6018	
2	Housing	Polybutylene terephthalate	0.3049	Polybutylene terephthalate	30965-26-5	49	17.8411	36.41
				Glass fiber	65997-17-3	35	12.7436	
				Brominated flame retardant	trade secret	10	3.6410	
				Antimony trioxide	1309-64-4	6	2.1846	
3	Rotor	Nylon	0.038	Polyamide 66	32131-17-2	60	2.7227	4.54
				Glass fiber	65997-17-3	30	1.3614	
				Tetrafluoroethylene polymer	9002-84-0	8	0.3630	
4	Potting	Epoxy	0.078	Epoxy resin	25068-38-6	64	5.9613	9.31
				Antimony trioxide	1309-64-4	11	1.0246	
				Aluminum oxide	1344-28-1	10	0.9315	
				Kaolin clay	1332-58-7	6	0.5589	
				Magnesium alumino silicate	1302-88-1	9	0.8383	

MATERIAL DECLARATION

5	Shaft	Brass	0.102	Copper	7440-50-8	62	7.5519	12.18
				Zinc	7440-66-6	35.05	4.2693	
				Iron	7439-89-6	0.35	0.0426	
				Lead	7439-92-1	2.6	0.3167	
6	Substrate	Ceramic	0.144	Aluminum oxide	1344-28-1	96	16.5082	17.19
				Silicon dioxide	7631-86-9	2	0.3439	
				Magnesium oxide	1309-48-4	1	0.1720	
				Calcium oxide	1305-78-8	1	0.1720	
7	Termination Ink	Ink	0.004	Silver	7440-22-4	94	0.4481	0.48
				Palladium	7440-05-3	3	0.0139	
				Bismuth	7440-69-9	1.0	0.0048	
				Copper	7440-50-8	2	0.0100	
8	Resistive Ink	Ink	0.005	Silver	7440-22-4	25	0.1493	0.60
				Palladium	7440-05-3	30	0.1791	
				Barium	7440-39-3	21	0.1254	
				Boron	7440-42-8	20	0.1194	
				Manganese	7439-96-5	4	0.0239	
9	Terminals	Copper	0.151	Copper	7440-50-8	99.999	18.0318	18.44
		Oxygen		7782-44-7	0.001	0.0002		
		Plating	0.0034	Tin	7440-31-5	100	0.4060	
10	Lubricant	Lubricant	0.0001	Polydimethylsiloxane	63148-62-9	58	0.0069	0.01
				Dimethyl siloxane	70131-67-8	9.5	0.0011	
				Silica, amorphous	7631-86-9	12.5	0.0015	
				Siloxane/silicones	63148-56-1	14	0.0017	
				Tetrafluoroethane	9002-84-0	6	0.0007	
Total Weight			0.8374					

This Document was updated on: 9-26-2019

Important remarks:

MATERIAL DECLARATION

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Non RoHS complaint versions available without the LF suffix