

## Material Composition for 8136 Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification		
Housing	PBT plastic blend	32.42%	PBT	26062-94-2	2.7070			
			fiberglass	65997-17-3	1.2490			
			antimony oxide	1309-64-4	0.2080	antimony fire retardant		
	Lubricant	0.0012%	alkyl/fluoroalkyl substituted arylamine diisocyanate reaction product	n/a	5.00E-05	non-Hazardous		
			trifluoropropylmethyl siloxane	63148-56-1	1.50E-04			
	Epoxy	0.02%	bisphenol-A	80-05-7	5.94E-05	contains BPA		
			calcium carbonate	471-34-1	0.0006			
			diethylene triamine	111-40-0	1.21E-04			
			epichlorohydrin	106-89-8	2.73E-08	Halogen		
			epoxy resin, epichlorohydrin/bisphenol A	25068-38-6	0.0005	Halogen & BPA		
			iron oxide, black	1317-61-9	9.10E-05			
	Marking	0.002%	SiO <sub>2</sub> , amorphous	7631-86-9	3.64E-05			
			trimethylolethane triglycidyl	30499-70-8	0.0005			
			cobalt naphenate	61789-51-3	7.50E-06			
cobalt neodecanonate			27253-31-2	7.50E-06				
Hexahydro-1, -3 isobenzofurandione			85-42-7	3.75E-05				
	trade secret	n/a		2.48E-04	non-hazardous			
Front lid	PBT plastic blend	9.02%	PBT	26062-94-2	7.53E-01			
			fiberglass	65997-17-3	0.3480			
			antimony oxide	1309-64-4	0.0580	antimony fire retardant		
Rear lid	PBT plastic blend	4.20%	PBT	26062-94-2	0.3510			
			fiberglass	65997-17-3	0.1620			
			antimony oxide	1309-64-4	0.0270	antimony fire retardant		
Slip ring	brass ring	1.93%	Cu	7440-50-8	0.1740			
			Zn	7440-66-6	0.0740			
			Pb	7439-92-1	1.24E-04	RoHS exemption 6(c)		
	Cu plating	0.01%	Cu	7440-50-8	0.0010			
	Ni plating	0.02%	Ni	7440-02-0	0.0030			
Au plating	0.05%	Au	7440-57-5	0.0060				
Slider block	PBT plastic blend	1.55%	PBT	26062-94-2	0.1510			
			fiberglass	65997-17-3	4.00E-02			
			Sb	7440-36-0	2.00E-03			
			antimony oxide	1309-64-4	0.0060	antimony fire retardant		
Contact spring	Cu Be alloy	0.44%	Cu	7440-50-8	0.0560			
			Be	7440-41-7	0.0010	Beryllium Trace Element		
			Co	7440-48-4	5.67E-05	Trace Elements		
Contact	Cu plating	0.436%	Cu	7440-50-8	0.0560			
			Ni	7440-02-0	0.0007			
			Au	7440-57-5	0.0010			
			Pd	7440-05-3	0.0060			
			Ag	7440-22-4	0.0050			
			Pt	7440-06-4	1.33E-04			
			Cu	7440-50-8	0.0020			
Ni	7440-02-0	1.33E-04						
Shaft/rotor	Nylon Blend	15.52%	PA 66 Blend	32131-17-2	1.16E+00			
			fiberglass	65997-17-3	7.97E-01			
			trade secret	n/a	0.0400			
Terminals	brass	0.58%	Cu	7440-50-8	0.0520			
			Zn	7440-66-6	0.0220			
			Fe	7439-89-6	2.95E-05			
	Cu plating	0.007%	Pb	7439-92-1	3.69E-05	RoHS exemption 6(c)		
			Cu	7440-50-8	0.0009			
Au plating	0.005%	Au	7440-57-5	0.0006				
Internal ribbon	Ni alloy	0.01%	Cu	7440-50-8	7.00E-07			
			C	7440-44-0	4.90E-07			
			Fe	7439-89-6	3.50E-07			
			Mn	7439-96-5	1.33E-06			
			Ni	7440-02-0	0.0007			
			S	7704-34-9	7.00E-08			
			Si	7440-21-3	1.05E-06			
Washer(s)	stainless steel	0.09%	Fe	7439-89-6	0.0080			
			C	7440-44-0	1.04E-05			
			Cr (0)	7440-47-3	0.0020			
			Mn	7439-96-5	1.04E-04			
			Ni	7440-02-0	0.0008			
			Si	7440-21-3	5.21E-05			
Lockwasher	spring steel	2.50%	C	7440-44-0	0.0020			
			Fe	7439-89-6	0.3170			
			Mn	7439-96-5	0.0020			
			P	7723-14-0	9.63E-05			
			S	7704-34-9	9.63E-05			
	Ni Plating	0.03%	Ni	7440-02-0	0.0040	Can be external nickel		
Nut	brass	9.42%	Cu	7440-50-8	0.7440			
			Zn	7440-66-6	0.4270			
			Pb	7439-92-1	0.0390	RoHS exemption 6©		
	Zn or Ni plating	0.05%	Zn or Ni	7440-66-6 or 7440-02-0	0.0060			
Resistance coil	NiCr alloy	1.13%	Ni	7440-02-0	0.1090			
			Cr (0)	7440-47-3	0.0260			
			Al	7429-90-5	0.0040			
			Si	7440-21-3	0.0009			
			Mn	7439-96-5	0.0030			
			Cu	7440-50-8	0.0020			
			Cu core	16.84%	Cu	7440-50-8	2.1630	
			insulation	0.888%	polyimide, aromatic	25038-81-7	0.1140	
	lubricant	0.008%	trade secret	n/a	0.0010	non-hazardous		
	Conductive Plastic	2.72%	trade secret	n/a	0.3500	non-hazardous		
<b>Total Mass</b>					<b>12.8450</b>	<b>grams</b>		