

6137 BOM-style material declaration. BI Technologies Corporation

11/12/2014

No content here is banned per E.U. R.o.H.S.. Average mass of 6137 potentiometer is 18 grams each. Prepared by Eric Arnold (714) 447-2565
Weights in table above 1 milligram rounded to the nearest mg. Values less than 1 milligram given in scientific notation.

Sub-component	Material	% of total mass	Substance name	CAS #	Substance Weight (grams)	Special classification		
Housing	Zn alloy	40.3%	Zn	7440-66-6	6.976	5 ppm concentration, below E.U. RoHS restriction threshold		
			Al	7429-90-5	0.291			
			Cd	7440-43-9	3.64E-05			
			Cu	7440-50-8	7.27E-04			
			Fe	7439-89-6	0.002			
			Mg	7439-95-4	7.27E-04			
			Ni	7440-02-0	7.27E-04			
			Pb	7439-92-1	7.27E-05			
			Sn	7440-31-5	1.45E-05			
			trade secret	n/a	1.016			
	bronze, oil impregnated	5.6%			10 ppm concentration, below E.U. RoHS restriction threshold			
	marking	0.002%	C	7440-44-0	1.02E-04	non-hazardous, Pb in bronze will be exempt from E.U. RoHS		
			cobalt napthenate	61789-51-3	5.10E-06			
			cobalt neodecanonate	27253-31-2	5.10E-06			
Zn oxide coating	n/a	Hexahydro-1,3-isobenzofurandione	85-42-7	2.55E-05	non-hazardous			
		trade secret	n/a	1.63E-04				
			trade secret black oxide	n/a	trace (unspecified)	non-hazardous		
Rotor	PA 66 plastic blend	5.4%	polyhexamethylene adipamide	32131-17-2	0.628	non-hazardous		
			fiberglass	65997-17-3	0.319			
			trade secret	n/a	0.019			
Shaft	stainless steel	25.7%	Fe	7439-89-6	3.346			
			C	7440-44-0	0.005			
			Cr (0)	7440-47-3	0.834			
			Mn	7439-96-5	0.046			
			Ni	7440-02-0	0.371			
			P	7723-14-0	0.005			
			S	7704-34-9	0.005			
			Si	7440-21-3	0.023			
Contact	Cu alloy	0.1%	Cu	7440-50-8	0.008			
			Sn	7440-31-5	8.93E-04			
			Ni	7440-02-0	1.52E-03			
	Pd alloy	0.01%	Pd	7440-05-3	5.46E-04			
			Ag	7440-22-4	4.71E-04			
			Pt	7440-06-4	1.24E-05			
			Cu	7440-50-8	8.79E-04			
			Ni	7440-02-0	1.69E-04			
Terminals	OFHC copper	1.4%	Cu	7440-50-8	0.250			
	Sn plating	0.01%	Sn	7440-31-5	0.002			
Element	alumina	13.3%	Al2O3	1344-28-1	2.295			
			CaO	1305-78-8	0.012			
			FeO2	1345-25-1	0.012			
			MgO	1309-48-4	0.012			
			MnO2	1313-13-9	0.024			
			SiO2	7631-86-9	0.024			
			TiO2	13463-67-7	0.012			
			Marking ink	0.02%	DAIP resin		1087-21-4	0.003
					carbon black		1333-86-4	1.80E-04
					SiO2		7631-86-9	2.48E-04
	Lubricant	0.001%	trade secret	n/a	2.00E-04	non-hazardous		
			Conductor	0.02%	Ag	7440-22-4	0.002	bismuth compound
	BiO3	1304-76-3	1.19E-04					
	NiO	1313-99-1	4.08E-05					
	nonylphenol ethoxylate	68412-53-3	4.08E-05					
	Pd	7440-05-3	7.98E-04					
	trade secret	n/a	3.19E-04	non-hazardous				

Resistor	0.02%	DAIP resin	1087-21-4	0.002		
		C	7440-44-0	9.14E-04		
		3-(trimethoxysilyl) propyl methacrylate	2530-85-0	2.75E-05		
		SiO2	7631-86-9	1.54E-05		
		t-butyl peroxybenzoate	614-45-9	5.20E-05		
		trade secret	n/a	6.99E-05	non-hazardous	
Lockwasher	spring steel	1.7%	Fe	7439-89-6	0.294	
			C	7440-44-0	0.001	
			Mn	7439-96-5	0.002	
			P	7723-14-0	8.93E-05	
			S	7704-34-9	8.93E-05	
	Ni plating	0.02%	Ni	7440-02-0	0.004	
Nut	brass	6.5%	Cu	7440-50-8	0.726	
			Zn	7440-66-6	0.417	
			Pb	7439-92-1	0.038	Pb in copper alloy (E.U. RoHS exempt)
	Zn or Ni plating	0.03%	Zn or Ni	7440-66-6 or 7440-02-0	0.006	can be external nickel