

6127 material declaration. BI Technologies Corporation

11/12/2014

No content here is banned per E.U. R.o.H.S.. Average mass of 6127 potentiometer is 16 grams each. Prepared by Eric Arnold (714) 447-2565
Weights 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	PBT blend	13.9%	PBT	26062-94-2	1.466	
			fiberglass	65997-17-3	0.677	
			antimony oxide	1309-64-4	0.090	
	bronze bushing	25.8%	C	7440-44-0	0.023	
			Cu	7440-50-8	3.474	
			Pb	7439-92-1	0.293	Pb in copper alloy (E.U. RoHS exempt)
			Sn	7440-31-5	0.280	
			Zn	7440-66-6	0.126	
			Ni	7440-02-0	0.006	
			Sb	7440-36-0	0.004	
white epoxy ink	0.0018%	trade secret	n/a	3.00E-04	non-hazardous	
PCB	FR4, metal plating, markings	6.7%	proprietary	n/a	1.091	certified RoHS compliant but not halogen free
Die attach solder	SAC alloy	0.20%	Sn	7440-31-5	0.032	
			Ag	7440-22-4	0.001	
			Cu	7440-50-8	2.31E-04	
Hall chip	Cu alloy leadframe	0.15%	Cu	7440-50-8	0.024	Entire chip certified halogen-free and E.U. RoHS compliant
			Fe	7439-89-6	2.43E-08	
			Mn	7439-96-5	2.43E-08	
			Al	7429-90-5	1.21E-07	
			Zr	7440-67-7	1.46E-05	
	Ag plating die	0.0015%	Ag	7440-22-4	2.43E-04	
			Si	7440-21-3	0.003	
	die attach epoxy	0.007%	Ag	7440-22-4	9.00E-04	
			epoxy resin, trade secret	n/a	1.70E-04	
	wire bonds	0.0018%	aromatic amine, trade secret	n/a	6.00E-05	
			Au	7440-57-5	3.00E-04	
	Sn lead finish	0.008%	dopant, trade secret	n/a	3.00E-08	
			Sn	7440-31-5	0.001	
	epoxy encapsulation	0.50%	plating additive, trade secret	n/a	1.37E-07	
			silica, fused	60676-86-0	0.072	
			epoxy resin, trade secret	n/a	0.004	
			epoxy, cresol novolac	29690-82-2	0.002	
phenol resin, trade secret			n/a	0.004		
carbon black			1333-86-4	2.50E-04		
cobalt iron alloy IMC	0.0001%	Co	7440-48-4	1.35E-05		
		Si	7440-21-3	4.90E-07		
		Fe	7439-89-6	8.50E-07		
		Mg	7439-96-5	5.80E-07		
Terminal solder	SAC alloy	0.84%	Sn	7440-31-5	0.131	
			Ag	7440-22-4	0.004	
			Cu	7440-50-8	0.001	
Turrets (sum of three)	brass core	1.28%	Cu	7440-50-8	0.128	
			Zn	7440-66-6	0.073	
			Pb	7439-92-1	0.007	Pb in copper alloy (E.U. RoHS exempt)
	nickel plating	trace	Ni	7440-02-0	trace	
			Sn	7440-31-5	3.60E-06	
Shaft	stainless steel	38.73%	Fe	7439-89-6	4.538	
			C	7440-44-0	0.006	
			Cr (0)	7440-47-3	1.131	not restricted (metallic)
			Mn	7439-96-5	0.063	
			Ni	7440-02-0	0.503	
			P	7723-14-0	0.031	
			S	7704-34-9	0.006	
			Si	7440-21-3	0.006	
			trade secret	n/a	0.009	non-hazardous
			lubricant	0.056%		

Magnet	sintered samarium cobalt	2.17%	Sm	7440-19-9	0.092			
			Co	7440-48-4	0.176			
			Cu	7440-50-8	0.018			
			Fe	7439-89-6	0.056			
			Zn	7440-66-6	0.011			
			acrylic adhesive (crosslinked copolymer)	0.055%	polyurethane methacrylate resin	trade secret	0.005	non-hazardous
			2-hydroxyethyl methacrylate	868-77-9	0.003			
			fumed silica	67762-90-7	0.001			
Chip caps (sum of 3)	ceramic MLC	0.10%	proprietary	n/a	0.016	certified RoHS compliant and no REACH SVHC's		
Truarc	stainless steel	0.48%	Fe	7439-89-6	0.056			
			C	7440-44-0	7.78E-05			
			Cr (0)	7440-47-3	0.014	not restricted (metallic)		
			Mn	7439-96-5	7.78E-04			
			Ni	7440-02-0	0.006			
			P	7723-14-0	7.78E-05			
			S	7704-34-9	7.78E-05			
			Si	7440-21-3	3.89E-04			
			trivalent chromium plating	trace	Cr(III)	16065-83-1	trace	not restricted (trivalent)
			Nut	brass	7.06%	Cu	7440-50-8	0.726
Zn	7440-66-6	0.417						
Pb	7439-92-1	0.004				Pb in copper alloy (E.U. RoHS exempt)		
Zn or Ni plating	0.04%	Zn or Ni				7440-66-6 or 7440-02-0	0.006	can be external nickel
Lock washer	spring steel	1.86%	Fe	7439-89-6	0.298			
			C	7440-44-0	0.002			
			Mn	7439-96-5	0.002			
			P	7723-14-0	9.07E-05			
			S	7704-34-9	9.07E-05			
			Ni plating	0.03%	Ni	7440-02-0	0.004	can be external nickel
Sum of all substances					16.23			