

External_Type	Material_Group	Substances	CAS_Number	Mass	Mass_Percentage_in_Leaf	Massmg	
Die	Doped Silicon	Silicon (Si)	7440-21-3	0.09652	100.0	166.44	
			Subtotal	0.09652	100	166.44	
Clip Frame	Copper alloy	Zinc (Zn)	7440-66-6	0.0002	0.1	0.342	
			Iron (Fe)	7439-89-6	0.0004	0.2	0.684
			Copper (Cu)	7440-50-8	0.19774	99.7	340.974
			Molybdenum (Mo)	7439-98-7	0.00045	99.98	0.77984
			Iron (Fe)	7439-89-6	0	0.2	0.00156
			Subtotal	0.19879	200.18	342.7814	
Copper Base	Copper alloy	Zinc (Zn)	7440-66-6	0.02176	0.05	37.515	
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.08702	0.2	150.06
			Iron (Fe)	7439-89-6	0.02176	0.05	37.515
			Copper (Cu)	7440-50-8	43.38095	99.7	74804.91
			Subtotal	43.51149	100	75030	
Isolator	Copper alloy	Aluminium Trioxide (Al2O3)	1344-28-1	3.40833	64.87	5877.222	
			Copper (Cu)	7440-50-8	1.84576	35.13	3182.778
			Subtotal	5.25409	100	9060	
Plastic Housing	Pentaerythritol tetrakis	Bisphenol-A/Diglycidyl ether resin - cas no. 25085-99-8 (generic)	6683-19-8	0.80168	6.0	1382.4	
			25085-99-8	2.40505	18.0	4147.2	
			Fiber Glass Wool	65997-17-3	3.74119	28.0	6451.2
			Subtotal	13.36138	100	23040	
Polymer	Poly(oxy-1,4-butanedioxydicarbonyl-1,4-phenylene-carbonyl)	24968-12-5	6.41346	48.0	11059.2		
			Subtotal	13.36138	100	23040	
Terminal	Copper alloy	Zinc (Zn)	7440-66-6	0.00123	0.1	2.115	
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00491	0.4	8.46
			Iron (Fe)	7439-89-6	0.00123	0.1	2.115
			Copper (Cu)	7440-50-8	1.21917	99.4	2102.31
			Zinc (Zn)	7440-66-6	0.00123	0.1	2.116
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00491	0.4	8.464
			Iron (Fe)	7439-89-6	0.00123	0.1	2.116
			Copper (Cu)	7440-50-8	1.21975	99.4	2103.304
			Zinc (Zn)	7440-66-6	0.00118	0.1	2.041
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00473	0.4	8.164
			Iron (Fe)	7439-89-6	0.00118	0.1	2.041
			Copper (Cu)	7440-50-8	1.17652	99.4	2028.754
			Zinc (Zn)	7440-66-6	0.00149	0.1	2.563
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00595	0.4	10.252
			Iron (Fe)	7439-89-6	0.00149	0.1	2.563
			Copper (Cu)	7440-50-8	1.47742	99.4	2547.622
			Zinc (Zn)	7440-66-6	0.00149	0.1	2.563
			Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00595	0.4	10.252
			Iron (Fe)	7439-89-6	0.00149	0.1	2.563
			Copper (Cu)	7440-50-8	1.47742	99.4	2547.622
Subtotal	6.60997	500	11398				
Adhesive	Octamethylcyclotetrasiloxane(D4)	556-67-2	1.29902	100.0	2240		
			Subtotal	1.29902	100	2240	
Coating	Octamethylcyclotetrasiloxane(D4)	556-67-2	2.95325	97.0	5092.5		
			0.000913375886721404	3	157.5		
			91053-39-3	2.95325	97.0	5092.5	
			0.000913375886721404	3	157.5		
			37206-20-5	3.17014	65.0	5466.5	
			917-23-7	0.24386	5.0	420.5	
			68003-28-1	1.46314	30.0	2523	
			108-95-2	0.13187	3.0	227.4	
Subtotal	10.91733675177344	303	19137.4				
Screw Nut	Copper alloy	1,3-Isobenzofurandione/reaction product with N-(2-Aminoethyl)-1,2-Ethanediamine	7440-44-0	1.31874	30.0	2274	
			Phenol	7440-21-3	2.94519	67.0	5078.6
			Carbon (C)	7440-02-0	0.59948	19.69	1033.725
			Silicon (Si)	7439-96-5	0.4436	14.57	764.925
			Nickel (Ni) - cas no. 7440-02-0	7440-50-8	0.39884	13.1	687.75
			Manganese (Mn)	7440-47-3	0.95904	31.5	1653.75
Subtotal	6.66489	175.86	11492.75				
Screw Bolt	Copper alloy	Copper (Cu)	7440-44-0	0.32882	10.8	567	
			Chromium (Cr)	7440-21-3	0.31481	10.34	542.85
			Carbon (C)	7439-96-5	2.04962	20.79	3534.3
			Subtotal	2.69325	41.93	4644.15	
Die Attach	Lead alloy	Silicon (Si)	7440-31-5	0.61222	6.21	1055.7	
			Manganese (Mn)	7440-22-4	7.19682	73.0	12410
			Tin (Sn)	7439-92-1	0.07017	5.0	121
			Subtotal	7.87921	84.21	13586.7	
Total	98.48594675177344	100	170138.2214				

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