


MATERIAL DECLARATION



Material Number	CDSC706-0504C			
Product Line	Semiconductor Products			
Compliance Date	2013/2/1			
RoHS Compliant	Yes	MSL	3	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)				
1	Wafer	Silicon	0.268	Silicon	7440-21-3	100.0000%	3.4421%	3.4421%				
2	Lead Frame	Copper alloy	1.481	Nickel	7440-02-0	40.9966%	19.0187%	46.3910%				
			0.029	Manganese	7439-96-5	0.8000%	0.3711%					
			0.018	Cobalt	7440-48-4	0.5001%	0.2320%					
			0.011	Silicon	7440-21-3	0.2999%	0.1391%					
			0.001	Phosphorus	7723-14-0	0.0249%	0.0116%					
			0.004	Sulfur	7704-34-9	0.1000%	0.0464%					
			0.002	Carbon	7440-44-0	0.0501%	0.0232%					
			2.066	Iron	7439-89-6	57.2201%	26.5450%					
3	Epoxy	Polymer	0.000002	Silver	7440-22-4	0.0083%	0.0039%	4.5209%				
			0.149	Silica, crystalline	14808-60-7	42.5000%	1.9215%					
			0.088	Epoxy resin	TS ref# 10030	25.0000%	1.1302%					
			0.053	Epoxy resin	TS ref# 10114	15.0000%	0.6781%					
			0.053	Epoxy resin modifier	TS ref# 10038	15.0000%	0.6781%					
4	Wire	Noble metal	0.009	Amine	TS ref# 10039	2.5000%	0.1130%	1.3614%				
			0.106	Gold	7440-57-5	99.9900%	1.3614%					
			5	Mold compound	Polymer	0.155	Solid Epoxy Resin		Trade Secret	5.0000%	1.9953%	39.9050%
						0.155	Phenol Resin		Trade Secret	5.0000%	1.9953%	
2.625	Fused Silica*1	60676-86-0				84.5000%	33.7197%					
0.016	Carbon Black	1333-86-4				0.5000%	0.1995%					
0.078	Metal Hydroxide	Trade Secret				2.5000%	0.9976%					
0.078	Catalyst	Trade Secret				2.5000%	0.9976%					

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6	Plating	plating	0.340659	Tin	7440-31-5	99.90%	4.37522%	4.3796%
			0.000136	Lead	7439-92-1	0.0400%	0.00175%	
			0.000027	Arsenic	7440-38-2	0.0080%	0.00035%	
			0.000024	Iron	7439-89-6	0.0070%	0.00031%	
			0.000027	Copper	7440-50-8	0.0080%	0.00035%	
			0.000051	Bismuth	7440-69-9	0.0150%	0.00066%	
			0.000065	Antimony	7440-36-0	0.0192%	0.00084%	
			0.000003	Zinc	7440-66-6	0.0010%	0.00004%	
			0.000003	Aluminum	7429-90-5	0.0010%	0.00004%	
			0.000003	Cadmium	7440-43-9	0.0008%	0.00004%	
			Total weight		7.786			

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Important remarks: It is the responsibility of the user to verify they are accessing the latest version.