

MATERIAL DECLARATION SHEET



Package Type	TBU-DF		
Product Line	Semiconductor Products		
Compliance Date	November 16, 2017		
RoHS Compliant	Yes	MSL	1

No.	Construction Element (Subpart)	Homogeneous Material	Material Weight [g]	Homogeneous Material\ Substances	CAS Number if applicable	Materials Mass %	Material Mass % of Total Unit Weight	Subpart Mass of Total Wt. (%)
1	Encapsulation	Epoxy resin	0.047	Epoxy Resin	Trade Secret	6	2.733	45.543
				Phenol Resin	Trade Secret	3	1.366	
				Silica Fused	60676-86-0	90.45	41.193	
				Carbon Black	1333-86-4	0.55	0.251	
2	Leadframe	Copper alloy	0.04	Copper	7440-50-8	96	37.20930	38.760
				Iron	7439-89-6	2.20	0.85271	
				Zinc	7440-66-6	0.1	0.03876	
				Phosphorous	7723-14-0	0.075	0.02907	
				Lead (Impurity)	7439-92-1	0.001	0.00039	
				Silver (Plating)	7440-22-4	1.624	0.62946	
3	Chip	Silicon	0.011	Silicon	7440-21-3	100	10.659	10.659
4	Die Attach	Conductive Silver Epoxy	0.0012	Silver	7440-22-4	93.4	1.086	1.163
				Epoxy resin	Trade Secret	5.5	0.064	
				Polymeric compound	Trade Secret	0.55	0.0064	
				Functionalized Ester	Trade Secret	0.55	0.0064	
5	Bond wires	Gold	0.0005	Gold	7440-57-5	99.99	0.48395	0.484
				Potential impurities may include Ag, Be or Ca ≤ 30 ppm	7440-22-4; 7440-41-7; 7440-70-2	0.01	0.00005	

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6	Terminal Finish	Alloy	0.0035	Tin	7440-31-5	100.00	3.391	3.391
		Total Weight	0.1032					

Updated: January 19, 2019