

100% Material Declaration Data Sheet FF1760

Average Weight: 22.9881g

Component	Substance Description	CAS Number or Description	Percentage of Component	Use in Product	Component Weight/ Substance Weight (grams)	Component Percent of Total
Silicon Die					1.039000	4.520
	Silicon	7440-21-3	100.00		1.039000	
Solder Bump					0.051269	0.223
	Tin	7440-31-5	63.00		0.032299	
	Lead	7439-92-1	37.00		0.018969	
Underfill					0.105000	0.457
	Silica	60676-86-0	70.00		0.073500	
	Epoxy Resin A	9003-36-5	20.00		0.021000	
	Epoxy Resin B	25068-38-6	3.00		0.003150	
	Hardener	19900-65-3	7.00		0.007350	
Heat Spreader					11.0000	47.851
	Copper	7440-50-8	99.90		10.989000	
	Nickel	7440-02-0	0.10		0.011000	
Heat Spreader Adhesive					0.180000	0.783
	Organopolysiloxane mixture	N/A	100.00		0.180000	
Substrate					8.950000	38.933
	Copper	7440-50-8	46.49	Metal layer	4.160855	
	Nickel	7440-02-0	0.52	Metal layer	0.046540	
	Gold	7440-57-5	0.11	Metal layer	0.009845	
	Halogen fire retardant	N/A	5.32		0.476140	
	Glass fiber	N/A	10.40		0.930800	
	BT (core)	N/A	28.56		2.556120	
	Solder mask	N/A	8.60		0.769700	
Solder Balls					1.662824	7.233
	Tin	7440-31-5	63.00		1.047579	
	Lead	7439-92-1	37.00		0.615245	

Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
10/5/06	1.0	Initial Xilinx release.
7/20/10	1.1	Updated Heat Spreader substance description.

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