



100% Material Declaration Data Sheet FF1148

PK136 (v1.2) September 27, 2006

Material Declaration Data Sheet

Average Weight: 10.8689 g

Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
Silicon die					0.694500	6.390%
	Silicon	7440-21-3	100.00		0.694500	
Solder Bump					0.036115	0.332%
	Tin	7440-31-5	63.00		0.022753	
	Lead	7439-92-1	37.00		0.013363	
Underfill					0.074000	0.681%
	Silica	60676-86-0	70.00		0.051800	
	Epoxy Resin A	9003-36-5	20.00		0.014800	
	Epoxy Resin B	25068-38-6	3.00		0.002220	
	Hardener	19900-65-3	7.00		0.005180	
Heat spreader					6.000000	55.203%
	Copper (Cu)	7440-50-8	99.90		5.994000	
	Chromium	7440-47-3	0.10		0.006000	
Heat Spreader Adhesive					0.130000	1.196%
	Organopolysiloxane mixture	NA	100.00		0.130000	
Substrate					2.975310	27.375%
	Cu	7440-50-8	47.52	metal layer	1.390779	
	Ni	7440-02-0	0.52	metal layer	0.014877	
	Au	7440-57-5	0.11	metal layer	0.003273	
	Glass fiber	NA	10.35		0.309432	
	Halogen fire retardant	NA	5.30		0.156085	
	BT (core)	NA	27.50		0.833087	
	Solder mask	NA	8.70		0.267778	
Solder Balls					0.959000	8.823%
	Tin	7440-31-5	63.00		0.60417	
	Lead	7439-92-1	37.00		0.35483	

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Revision History

The following table shows the revision history for this document.

Date	Revision	Revision
3/23/06	1.0	Initial release.
7/07/06	1.1	100% Material Declaration.
9/27/06	1.2	Updated component descriptions.