



PK106 (v1.4) August 24,
2012

100% Material Declaration Data Sheet for FGG320 Package

Average Weight: 1.3440 g

Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
Silicon Die					0.046403	3.453
	Silicon	7440-21-3	100.00		0.046403	
Die Attach Material					0.008456	0.629
	Silver (Ag)	7440-22-4	77.50		0.006553	
	Bismaleimide monomer	Trade Secret	15.00		0.001268	
	Acrylate monomer	Trade Secret	7.50		0.000634	
Mold Compound					0.406264	30.228
	Epoxy Resin A	Trade Secret	3.00		0.012188	
	Epoxy Resin B	Trade Secret	3.00		0.012188	
	Phenol Resin A	Trade Secret	3.00		0.012188	
	Phenol Resin B	Trade Secret	3.00		0.012188	
	Metal Hydroxide	Trade Secret	1.50		0.006094	
	Carbon black	1333-86-4	0.30		0.001219	
	Silica fused	60676-86-0	70.90		0.288041	
	Silica fused	7631-86-9	15.00		0.060940	
	Silica, crystalline	14808-60-7	0.30		0.001219	
Gold Wire					0.012251	0.912
	Gold (Au)	7440-57-5	99.048		0.012134	
	Palladium	7440-05-3	0.950		0.000116	
	Calcium	7440-70-2	0.002		0.000000	
Solder Balls					0.268040	19.943
	Tin (Sn)	7440-31-5	95.50		0.255978	
	Silver (Ag)	7440-22-4	4.00		0.010722	
	Copper (Cu)	7440-50-8	0.50		0.001340	

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Component	Substance Description	CAS# or Description	% of Component	Use in Product	Component Weight/ Substance Weight (in grams)	Component % of Total
Substrate					0.602586	44.835
	Copper (Cu)	7440-50-8	17.76		0.107037	
	Nickel (Ni)	7440-02-0	5.89		0.035477	
	Gold (Au)	7440-57-5	0.70		0.004242	
	Glass Fiber	65997-17-3	21.16		0.127520	
	Halogen Fire Retardant	N/A	0.10		0.000605	
	Laminate	13676-54-5 25722-66-1 29690-82-2 26265-08-7 13776-74-4 7631-86-9 7440-50-8	43.48		0.262029	
	Solder mask	64742-94-5 14807-96-6 7727-43-7 7631-86-9 34590-94-8	10.90		0.065676	

Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
3/21/06	1.0	Initial Xilinx release.
5/12/06	1.1	100% Material Declaration.
9/27/06	1.2	Updated component descriptions.
12/23/11	1.3	Updated component weights and descriptions.
08/24/12	1.4	Updated CAS # for Au (7440-57-5) in Substrate.

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