



PK918 (v1.0) June 27, 2017

100% Material Declaration Data Sheet for 7-Series Kintex FFG1156 RoHS 6/6

Average Weight : 14.3166 g

Component	Substance Description	CAS # or Description	% of component	Use in product	Component weight / substance weight (in grams)	Component % of total
Silicon die	Silicon	7440-21-3	100.00	basis	0.446519	3.119%
					0.446519	
Bump	Tin	7440-31-5	98.20	basis	0.017783	0.126%
	Silver	7440-22-4	1.80	basis	0.000326	
					0.053000	0.370%
Underfill	Bisphenol F type liquid	9003-36-5	15.00	basis	0.007950	
	1,6-Bis(2,3-	27610-48-6	10.00	basis	0.005300	
	Bisphenol A type liquid	25068-38-6	5.00	basis	0.002650	
	Amine type hardener	trade secret	10.00	basis	0.005300	
	Silicon dioxide	60676-86-0	58.00	filler	0.030740	
	Carbon black	1333-86-4	1.00	color agent	0.000530	
	Additives	trade secret	1.00	additives	0.000530	
					0.005496	0.038%
Solder paste	Tin	7440-31-5	96.50	metal	0.005304	
	Silver	7440-22-4	3.00	metal	0.000165	
	Copper	7440-50-8	0.50	metal	0.000027	
					0.004800	0.034%
Capacitor 1	BaTiO3 type	1304-28-5	40.00	Ceramic	0.001920	
	Titanium dioxide	13463-67-7	20.00		0.000960	
	Misc	-	6.67		0.000320	
	Nickel	7440-02-0	2.42	Inner electrode	0.000116	
	Copper	7440-50-8	20.73	Out electrode	0.000995	
	Silicon dioxide	7631-86-9	1.85		0.000089	
	diboron trioxide; boric	1303-86-2	0.45		0.000022	
	Nickel	7440-02-0	2.12	Plating1	0.000102	
	Tin	7440-31-5	5.76	Plating2	0.000276	
						0.007360
Capacitor2	BaTiO3 type	1304-28-5	31.67	Ceramic	0.002331	
	Titanium dioxide	13463-67-7	15.83		0.001165	
	Misc	-	5.28		0.000389	
	Nickel	7440-02-0	26.67	Inner Electrode	0.001963	
	Copper	7440-50-8	15.10	Outer Electrode	0.001111	
	Silicon dioxide	7631-86-9	1.34		0.000099	
	diboron trioxide; boric	1303-86-2	0.33		0.000024	
	Nickel	7440-02-0	1.00	Plating1	0.000074	
	Tin	7440-31-5	2.78	Plating2	0.000205	
						0.037800
Capacitor3	BaTiO3 type	1304-28-5	37.46	Ceramic	0.014160	
	Titanium dioxide	13463-67-7	18.73		0.007080	
	Misc	-	6.24		0.002359	
	Nickel	7440-02-0	17.95	Inner Electrode	0.006785	
	Copper	7440-50-8	15.88	Outer Electrode	0.006003	
	Silicon dioxide	7631-86-9	1.41		0.000533	
	diboron trioxide; boric	1303-86-2	0.35		0.000132	
	Nickel	7440-02-0	0.54	Plating1	0.000204	
	Tin	7440-31-5	1.44	Plating2	0.000544	
						8.957100
Heat sink	Copper	7440-50-8	98.35	Main material	8.809308	
	Nickel	7440-02-0	1.65	Main material	0.147792	
					0.148000	1.034%
Heat sink adhesive	Aluminium Oxide Al2O3	-	80.00	Main material	0.118400	
	Dimethyl siloxane, dimethylvinyl-terminated	68083-19-2	20.00	Main material	0.029600	
					0.965683	6.745%
Solder ball	Tin	7440-31-5	96.50	Main material	0.931884	
	Silver	7440-22-4	3.00	Main material	0.028970	
	Copper	7440-50-8	0.50	Main material	0.004828	
					3.672733	25.654%
Substrate	Copper	7440-50-8	40.49		1.487090	
	Tin	7440-31-5	0.95		0.034891	
	Silver	7440-22-4	0.03		0.001102	
	Core	N/A	43.19		1.586252	
	ABF	N/A	13.16		0.483332	
	Solder Mask	N/A	2.18		0.080066	

Revision History

Date	Version	Description of Revisions
6/27/2017	1.0	Initial Xilinx Release

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