

MATERIAL DATA SHEET

Material #	CPDUR & CPDU series(0603) (Halogen Free)	
Product Line	SOD-523F	
Date	2011/10/5	
Rev.	G	

COMPONENT DETAILS

No.	Construction element	Material group	Material weight (mg)	Material	CAS if applicable	Average mass (%)	Sum(%)	Traces
1	FR-4 Board	Substrate/ Terminal	1.357	Copper	7440-50-8	29.34%	41.45	
				Nickel	7440-02-0	4.762%		
				Gold	7440-57-5	0.155%		
				Continuous Filament Fiber Glass	65997-17-3	65.74%		
2	Wafer	Diode	0.029	Silicon	7440-21-3	97.9480%	0.89	
				Aluminum	7429-90-5	2.0000%		
				Titanium	7440-32-6	0.0010%		
				Silver	7440-57-5	0.0010%		
				SiO2	14808-60-7	0.0500%		
3	Al wire	Conductor	0.001	Aluminum	7429-90-5	99.00%	0.03	
				Silicon	7440-21-3	1.00%		
4	Silver paste	Welding	0.006	Modified Epoxy Resin	29690-82-2	5~25%	0.18	
				Silver	7440-22-4	76~85%		
				Imidazole	827-43-0	1~4%		
				Amide	461-58-5	1~4%		
5	Molding Compound	Outer	1.881	Silica	60676-86-0	70~90%	57.45	
				Epoxy Resin	29690-82-2	6~16%		
				Phenolic Resin	9003-35-4	5~15%		
				Carbon Black	1333-86-4	0.1~1%		
		Total weight	3.274					

Note: The existence of Pb is unavoidable during the process of substrate; concentration of Pb in the substrate is about 0.002% by wt%.

100.00

No.	Construction element	Material group	Material weight [mg]	Materials	CAS if applicable	Average mass [%]	Sum [%]	Traces
1	BT-Board	Substrate/ Terminal	1.357	Cu	7440-50-8	63.7	41.46%	
				Fiber		36.3		
2	Wafer	Diode	0.029	Silicon	7440-21-3	98	0.89%	
				Aluminum	7429-90-5	0.9		
				Gold	7440-57-5	1.0		
				Misc.		0.1		
3	Al wire	Conductor	0.001	Aluminum	7429-90-5	99	0.03%	
				Silicon	7440-21-3	1		
4	Silver paste	Welding	0.006	Silver	7440-22-4	78~82	0.18%	
				Epoxy	29690-82-2	18~22		
5	Molding Component	Outer	1.881	Silica fused	60676-86-0	75-95	57.44%	
				Epoxy resin	29690-82-2	6-10		
				Phenol resin	9003-35-4	2-6		
		Total weight	3.273					

1%=10000PPM

Report Date	Report number

單項成份重量	單項含量PPM	單項含量PPM
0.3981	12.1608%	121607.7764
0.0646	1.9739%	19738.9206
0.0021	0.0642%	641.5745
0.8921	27.2489%	272489.4316
0.028404920	0.87%	8675.9071
0.000580000	0.02%	177.1533
0.000000290	0.00%	0.0886
0.000000290	0.00%	0.0886
0.000014500	0.00%	4.4288
0.00099000	0.03%	302.3824
0.00001	0.00%	3.0544
0.000	5%	0.01%
		91.6310
1.505	80.00%	45.96%
0.188	10.00%	5.75%
0.179	9.50%	5.46%
0.009	0.50%	0.29%
3.2683		1.00
		998259.01

12.16 121607.78

北旭百
TOREX
九佳
FEEDPOOL
E'dale

0.12161