

VLSI SOLUTION OY – VS1002D/LSR-ROHS – LQFP48X7X7X1 – document A

Component	Weight (mg)	Type	Material	CAS#	%	Weight (mg)			
Chip	17.50		Silicon	7440-21-3	100.00	17.500			
Lead Frame	79.41	OLIN7025	Copper	7440-50-8	96.2	74.834			
			Fe	7439-89-6	0	0.000			
			Ni	7440-02-0	3	2.334			
			Sn	7440-31-5	0	0.000			
			P	7723-14-0	0	0.000			
			Zn	7440-66-6	0	0.000			
			Co	7440-48-4	0	0.000			
			Si	7440-21-3	0.65	0.506			
			Zr	-	0	0.000			
			Al	7429-90-5	0	0.000			
			Mn	7439-96-5	0	0.000			
			Cr	7440-47-3	0	0.000			
			Mg	7439-95-4	0.15	0.117			
			C	7440-44-0	0	0.000			
			S	7704-34-9	0	0.000			
			Ag	Silver	7440-22-4	100.00	1.618		
		Mold Compound	51.11	SUMIKON EMEG700LX 16MM X 7.3GR (15KG/BOX)	Silica Fused	60676-86-0	87.70	44.823	
Epoxy Resin	-				7.00	3.578			
Phenol Resin	-				5.00	2.555			
Phenol Novolac	9003-35-4				0.00	0.000			
Antimony Trioxide	1309-64-4				0.00	0.000			
Brominated Epoxy Resin	68541-56-0				0.00	0.000			
Carbon Black	1333-86-4				0.30	0.153			
Bonding Wire	0.63	1 mils	Gold	7440-57-5	99.99	0.633			
			Dopant	-	0.01	0.000			
Epoxy	1.51	CRM 1076DF EPOXY (10 CC/SYR ) (TSSOP)	Silver (Ag)	7440-22-4	74.50	1.122			
			Epoxy Resin	Proprietary	0.00	0.000			
			Epoxy Resin A	9003-36-5	11.50	0.173			
			Epoxy resin B	5026-74-4	0.00	0.000			
			T-Butyl phenyl glycidyl ether	3101-60-8	7.50	0.113			
			Butyl Cellosolve acetate	112-07-2	1.50	0.023			
			Diluent	26647-14-3	0.00	0.000			
			Dicydiamide	461-58-5	0.00	0.000			
			Hardener	620-92-8	1.50	0.023			
			HardenerA	Trade Secret	0.00	0.000			
			HardenerB	Trade Secret	0.00	0.000			
			Aromatic Amine	Proprietary	0.00	0.000			
			Elastmer	Trade Secret	0.00	0.000			
			1,1,1-Tris(p-hydroxyphenyl) ethane	27955-94-8	3.50	0.053			
Plating	2.90	LEAD FREE SN100 600X100X14MM	Sn	7440-31-5	99.97	2.899			
			Pb	7439-92-1	0.01	0.000			
			Cu	7440-50-8	0.01	0.000			
			As	7440-38-2	0.00	0.000			
			Cd	7440-43-9	0.00	0.000			
			Fe	7439-89-6	0.00	0.000			
			Bi	7440-69-9	0.00	0.000			
			Ag	7440-22-4	0.00	0.000			
			Sb	7440-36-0	0.00	0.000			
			Al	7429-90-5	0.00	0.000			
			Zn	7440-66-6	0.00	0.000			
			Ni	7440-02-0	0.00	0.000			
			In	7440-74-6	0.00	0.000			
			Au	7440-57-5	0.00	0.000			
			Total Weight	153.057					153.057