



Material Declaration
Statement of Materials, Construction

Product: ST16C654CJ68-F
Package: 68L PLCC

	Component		Material			Material Weight %	
	Name	Weight (mg)	Element/Compound	CAS No.	Weight (mg)	/Total Unit	/ Component
1	Die	8.850	Silicon	7440-21-3	8.850	0.18	100.00
2	Die Attach	0.680	Silver	7440-22-4	0.544	0.01	80.00
			Biphenol F	28064-14-4	0.102	0.00	15.00
			2-Ethylhexyl glycidyl ether	2461-15-6	0.034	0.00	5.00
3	Leadframe	806.188	Copper	7440-50-8	784.816	16.05	97.35
			Silver	7440-22-4	0.645	0.01	0.08
			Ferum	7439-89-6	18.945	0.39	2.35
			Zinc	7440-66-6	1.008	0.02	0.12
			Phosphorus	7723-14-0	0.653	0.01	0.08
			Others	-	0.121	0.00	0.01
4	Mold Compound	4045.800	Silica Fused	60676-86-0	3487.480	71.33	86.20
			Epoxy Resin	-	303.435	6.21	7.50
			Phenol Resin	-	121.374	2.48	3.00
			Metal Hydroxide	-	121.374	2.48	3.00
			Carbon black	1333-86-4	12.137	0.25	0.30
5	Lead Finish	23.560	Sn	7440-31-5	23.558	0.48	99.99
			Others	-	0.002	0.00	0.01
6	Wire	4.065	Gold	7440-57-5	4.025	0.08	99.00
			Palladium	7440-05-3	0.041	0.00	1.00
Total Unit Weight:		4889.1433					

Component weight is based on homogenous material used to assemble the unit. | Composition derived from the material declaration from vendors.

RoHS Certificate of Compliance

This package is fully RoHS compliant. The table above shows that this package meets the following RoHS requirements for EACH PACKAGE COMPONENT.

RoHS 2 (Recast) 2011/65/EU | Fully Compliant

China RoHS | Fully Compliant

RoHS-6 | Fully Compliant

Non Use of PFOS & PFOA

REACH | Fully Compliant

Halogen-free | Green

Dodd-Frank Wall Street Reform and Consumer Protection Act, July 21, 2010

We comply with this conflict metal free policy that restricts the use of those conflict metals, mining from the Democratic Republic of Congo (DRC) and it's adjoining countries. Exar will not accept product which uses these conflict metals from these areas. We require our suppliers to enforce this policy and be able to identify and verify from their sources of minerals are conflict free. Suppliers are required to report if they or any supplier through their supply chain use any of these conflict metals that are derived from certain conflict minerals originating in the DRC or an adjoining country. Exar Corporation is not aware of any conflict metals to be used in any of their products.

Flammability rating of UL 94-V0

MSL Pb-Free: L3 @245°C

EU RoHS Restricted Substance	Allowable Limit (at homogenous material level)
Cadmium & its compounds (Cd)	100 ppm (0.01 weight %)
Hexavalent Chromium & its compounds (Cr(VI))	1000 ppm (0.10 weight %)
Mercury & its compounds (HG)	1000 ppm (0.10 weight %)
Polybrominated biphenyls (PBB)	1000 ppm (0.10 weight %)
Polybrominated diphenyl ethers (PBDE)	1000 ppm (0.10 weight %)
Lead & its compounds (Pb)	1000 ppm (0.10 weight %)

Chiew Mee Foo, QA Manager