



**Material Declaration**  
Statement of Materials, Construction

Product: XR8051ASO8X  
Package: 8L SOIC

	Component		Material			Material Weight %	
	Name	Weight (mg)	Element/Compound	CAS No.	Weight (mg)	/Total Unit	/ Component
1	Die	4.157	Silicon	7440-21-3	4.157	5.66	100.00
2	Die Attach	0.518	Silver	7440-22-4	0.414	0.56	80.00
			Epoxy resin-1	-	0.039	0.05	7.50
			Epoxy resin-2	-	0.013	0.02	2.50
			.gamma.-Butyrolactone	96-48-0	0.013	0.02	2.50
			2,6-Diglycidyl phenyl allyl ether oligomer	-	0.013	0.02	2.50
			aminomethylethyl)-	9046-10-0	0.013	0.02	2.50
			Copper oxide	1317-38-0	0.013	0.02	2.50
3	Leadframe	16.120	Copper	7440-50-8	15.723	21.42	97.54
			Fe	7439-89-6	0.355	0.48	2.20
			P	7723-14-0	0.016	0.02	0.10
			Zn	7440-66-6	0.024	0.03	0.15
			Ag	7440-22-4	0.001	0.00	0.01
			Others	-	0.002	0.00	0.01
4	Mold Compound	52.178	Epoxy resin A	-	3.913	5.33	7.50
			Epoxy resin B	29690-82-2	1.304	1.78	2.50
			Phenol resin	-	1.304	1.78	2.50
			Silica (Amorphous)A	60676-86-0	44.090	60.07	84.50
			Silica (Amorphous)B	7631-86-9	1.304	1.78	2.50
			Carbon Black	1333-86-4	0.261	0.36	0.50
5	Plating	0.357	Sn	7440-31-5	0.357	0.49	99.99
			Others	-	0.000	0.00	0.01
6	Wire	0.070	Gold	7440-57-5	0.070	0.10	99.99
			Dopant	-	0.000	0.00	0.01
Total Unit Weight:		73.400					

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
- MSL Pb-Free: L3

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 %)

**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.

Chiew Mee Foo, QA Manager