



Material Declaration
Statement of Materials, Construction

Product: SP508EEF-L
Package: 100L LQFP

	Component		Material			Material Weight %	
	Name	Weight (mg)	Element/Compound	CAS No.	Weight (mg)	/Total Unit	/ Component
1	Die	31.3300	Silicon	7440-21-3	31.33000	3.76	100.00
2	Die Attach	3.6991	Silver	7440-22-4	2.73730	0.33	74.00
			Acrylic Resin	-	0.33291	0.04	9.00
			Polybutadiene derivative	-	0.18495	0.02	5.00
			Butadiene copolymer	-	0.05549	0.01	1.50
			Acrylate	-	0.22194	0.03	6.00
			Epoxy Resin	-	0.09248	0.01	2.50
			Peroxide	-	0.01850	0.00	0.50
			Additive	-	0.05549	0.01	1.50
3	Leadframe	238.6428	Cu	7440-50-8	225.15943	27.04	94.35
			Ni	7440-02-0	7.63657	0.92	3.20
			Si	7440-21-3	2.38643	0.29	1.00
			Mg	7439-95-4	0.35796	0.04	0.15
			Ag	7440-22-4	3.10236	0.37	1.30
4	Mold Compound	552.9160	Epoxy Resin 1	-	13.82290	1.66	2.50
			Epoxy Resin 2	-	4.42333	0.53	0.80
			Epoxy Resin 3	-	16.58748	1.99	3.00
			Hardener	-	22.11664	2.66	4.00
			Carbon Black	1333-86-4	1.10583	0.13	0.20
			Amorphous silica	60676-86-0	486.56608	58.44	88.00
			Crystal silica	14808-60-7	8.29374	1.00	1.50
5	Plating	2.9708	Sn	7440-31-5	2.97078	0.36	100.00
6	Wire	3.0482	Au	7440-57-5	3.04815	0.37	99.99

Total Unit Weight: 832.6067

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 @ 260°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