



**Material Declaration**  
Statement of Materials, Construction

Product: XRT75R121B-L  
Package: 420L TBGA (35x35)

Component		Material			Material Weight %	
Name	Weight (mg)	Element/Compound	CAS No.	Weight (mg)	/Total Unit	/ Component
1	Die	259.7160	Silicon	7440-21-3	259.7160	2.76 100.00
2	Die Attach	14.1150	Anhydride	-	0.8469	0.01 6.00
			Epoxy Resin	-	1.5527	0.02 11.00
			Polymeric Material	-	0.4235	0.00 3.00
			Silver	-	11.2920	0.12 80.00
3	Substrate	4267.4350	PolyimideCopper	7440-50-8	599.5466	6.37 14.05
			Copper	7440-50-8	570.4110	6.06 13.37
			Chromium	7440-47-3	0.2855	0.00 0.01
			Zinc	7440-66-6	0.1142	0.00 0.00
			Nickel	7440-02-0	0.2855	0.00 0.01
			Copper	7440-50-8	1615.9759	17.17 37.87
			Chromium	7440-47-3	0.8090	0.01 0.02
			Zinc	7440-66-6	0.3236	0.00 0.01
			Nickel	7440-02-0	0.8090	0.01 0.02
			EpoxyResin	-	335.7461	3.57 7.87
			ThermoplasticResin	-	276.9920	2.94 6.49
			Hardener	-	54.5616	0.58 1.28
			Addition	-	167.8689	1.78 3.93
			Polyethyleneterephthalatefilm(C10H8O4)n	25038-59-9	0.0000	0.00 0.00
			DiethyleneglycolMonomethyleterAcetate	112-15-2	204.3555	2.17 4.79
			Acetophenonderivative	-	39.0133	0.41 0.91
			Silicacrystalline	14808-60-7	39.0133	0.41 0.91
			Solventnaptha(petroleum)Heavyarom	7631-86-9	89.1733	0.95 2.09
			Modifiedurethaneresin	-	83.0972	0.88 1.95
			Filler	-	20.3966	0.22 0.48
			Phthalocyaninegreen	-	2.2663	0.02 0.05
Carbitolacetate	-	45.3257	0.48 1.06			
Naphtha	-	37.7714	0.40 0.89			
Nickel	7440-02-0	80.3881	0.85 1.88			
Gold	7440-57-5	2.9054	0.03 0.07			
4	Heat Spreader	3892.9170	Cu	7440-50-8	3868.3430	41.11 99.37
			Fe	7439-89-6	0.0973	0.00 0.00
			Mn	7439-96-5	0.0973	0.00 0.00
			Zr	7440-67-7	3.8929	0.04 0.10
			Al	7429-90-5	0.0973	0.00 0.00
			Ag	7440-22-4	20.0972	0.21 0.52
			C	7440-44-0	0.0973	0.00 0.00
			N	7727-37-9	0.0973	0.00 0.00
			O	7782-44-7	0.0973	0.00 0.00
5	Glob Top Dam	217.3710	Silica,vitreous	60676-86-0	114.0111	1.21 52.45
			Hexahydromethylphthalic anhydride	25550-51-0	43.4742	0.46 20.00
			Resin	-	6.5211	0.07 3.00
			Bisphenol A Diglycidyl Ether	1675-54-3	6.5211	0.07 3.00
			Silicon dioxide	7631-86-9	6.5211	0.07 3.00
			Quartz(SiO2)	14808-60-7	6.5211	0.07 3.00
			Epoxy resin	-	6.5211	0.07 3.00



**Material Declaration**  
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Product: XRT75R12IB-L  
Package: 420L TBGA (35x35)

		Epichlorohydrin-4,4-isopropylidene diphenol resin	25068-38-6	6.5211	0.07	3.00
		4.1.0}hept-3-ylmethyl 7-oxabicyclo{4.1.0}heptane	2386-87-0	6.5211	0.07	3.00
		bunds,benzyl(hydrogenated tallow alkyl)dimethyl	121888-68-4	6.5211	0.07	3.00
		Substituted phthalic anhydride	34090-76-1	6.5211	0.07	3.00
		Carbon black	1333-86-4	1.1955	0.01	0.55
6	Wire	41.4040	Gold	7440-57-5	41.3999	99.99
			Impurity	-	0.0041	0.01
7	GLOB Top Fill	79.0440	1,6-Bis(2,3-epoxypropoxy)naphthalene	27610-48-6	11.8566	15.00
			Cycloaliphatic anhydride	-	67.1874	0.71
8	Wire	637.9980	Sn	7440-31-5	395.5588	62.00
			Ag	7440-50-8	12.7600	2.00
			Other	-	229.6793	2.44

Total Unit Weight: 9410.0000

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: L4 @ 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