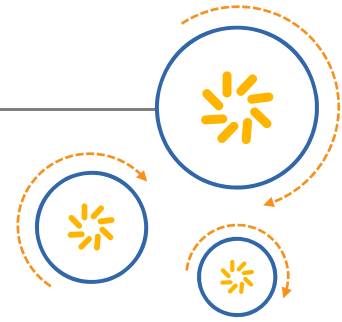




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Qualcomm Technologies International, Ltd.  
Churchill House  
Cambridge Business Park  
Cambridge, CB4 0WZ  
United Kingdom



Document Title: **Environmental Compliance Report**

Product Code: **CSR8311AXX-IQQD-R**  
 Cognidox Ref.: **CS-218483-RP**  
 Issue: **Issue 2**  
 Date Issued: **26-Mar-11**

CSR  
 Churchill House, Cambridge Busines Park, Cowley Road  
 Cambridge CB4 0WZ, UK  
 Registered in England UK 4187346  
 Tel: +44 (0) 1223 692000 / Fax: +44 (0) 1223 692001  
 E-mail: product.compliance@csr.com  
 H - www.csrsupport.com/EnvironmentalCompliance

<b>CSR Product</b>	CSR8311AXX-IQQD-R	<b>Material Environmental Status</b>	<b>Link to Lab Analysis Reports</b>	<b>Product Environmental Status</b>	<b>Definition of EU RoHS:</b>	Product meets the requirements of Directive 2002/95/EC of the European Parliament and of the Council on the Restriction of Hazardous Substances.
<b>Package</b>	QFN 40lds 6mm x 6mm x 0.9mm	<b>Material Environmental Status</b>	<b>Link to Lab Analysis Reports</b>	<b>CSR 'GREEN' Compliant</b>	<b>Definition of CSR 'GREEN':</b>	Product meets EU RoHS requirements and is also free from halogenated or antimony trioxide based flame retardants and other hazardous substances. If you require a full list of the definition of CSR 'GREEN', please contact product.compliance@csr.com
<b>Die Size</b>	2491 x 3130 x 175um	CSR 'GREEN'	<a href="#">CS-200300-RP</a>			
<b>Leadframe</b>	C194FH	CSR 'GREEN'	<a href="#">CS-110441-RP</a>			
<b>Die Attach</b>	Hitachi EN4900GND	CSR 'GREEN'	<a href="#">CS-110366-RP</a>			
<b>Bond Wire</b>	0.9milØ Au(AU094000A002)	CSR 'GREEN'	<a href="#">CS-110367-RP</a>			
<b>Mold Compound</b>	Hitachi 9240HF10AC	CSR 'GREEN'	<a href="#">CS-110368-RP</a>	<b>Env. Compliance Statement</b>		
<b>Plating</b>	Pure Tin	CSR 'GREEN'	<a href="#">CS-110370-RP</a>	<a href="#">CB-001036-ST</a>		

**Manufacturer contact information**  
 Contact: [product.compliance@csr.com](mailto:product.compliance@csr.com)

**MATERIAL DATA FORM**

Manufacturer name.	Total Mass of the Unit specified in (g):	Unit / Comp. Description (e.g. CHIPRES 0W125 1R0 J 1206)	Breakdown of component (e.g. chassis, transformer, lead frame, encapsulation, etc.)	Material Name. (e.g. Sn alloy)	Substance Name (e.g. Copper (Cu))	CAS No.	Substance Mass. (g)	Substance Mass. (mg)	% weight with respect to homogenous material / sub mass	% weight with respect to whole package	Additional Information (e.g. complete polymeric Material Trade Name or metallic Material Standard). Please declare "No FR" when the polymeric material DOES NOT contain any flame retardants.
CSR / ASE	0.1084	QFN 40lds									
			<b>Leadframe</b>	<b>C194FH</b>		sub mass	0.055347130	55.347130	100.0000%	51.0814%	
			Copper (Cu)	Copper (Cu)	Copper (Cu)	7440-50-8	0.052870350	52.870350	95.5250%	48.7955%	
			Others	Others	Others	Proprietary	0.000553470	0.553470	1.0000%	0.5108%	
			Plated Silver (Ag)	Plated Silver (Ag)	Plated Silver (Ag)	7440-22-4	0.000553470	0.553470	1.0000%	0.5108%	
			Iron (Fe)	Iron (Fe)	Iron (Fe)	7439-89-6	0.001300660	1.300660	2.3500%	1.2004%	
			Zinc (Zn)	Zinc (Zn)	Zinc (Zn)	7440-66-6	0.000069180	0.069180	0.1250%	0.0638%	
			<b>Die Attachment</b>	<b>EN4900G</b>		sub mass	0.000673320	0.673320	100.0000%	0.6214%	
			Silver	Silver	Silver	7440-22-4	0.000501630	0.501630	74.5000%	0.4630%	
			Acrylic resin	Acrylic resin	Acrylic resin	Proprietary	0.000057230	0.057230	8.5000%	0.0528%	
			Polybutadiene derivative	Polybutadiene deriv	Polybutadiene deriv	Proprietary	0.000026930	0.026930	5.5000%	0.0249%	
			Butadiene copolymer	Butadiene copolymer	Butadiene copolymer	Proprietary	0.000013470	0.013470	2.0000%	0.0124%	
			Epoxy resin	Epoxy resin	Epoxy resin	Proprietary	0.000016830	0.016830	2.5000%	0.0155%	
			Acrylate	Acrylate	Acrylate	Proprietary	0.000037030	0.037030	4.0000%	0.0342%	
			Peroxide	Peroxide	Peroxide	Proprietary	0.000006730	0.006730	1.0000%	0.0062%	
			Additive	Additive	Additive	Proprietary	0.000013470	0.013470	2.0000%	0.0124%	
			<b>Gold Wire</b>			sub mass	0.001000000	1.000000	100.0000%	0.9229%	
			Gold	Au	Au	7440-57-5	0.000999900	0.999900	99.9900%	0.9228%	
			dopant	Ion Impurities	Ion Impurities	Proprietary	0.000000100	0.000100	0.0100%	0.0001%	
			<b>Molding Compound</b>	<b>9240HF</b>		sub mass	0.046565990	46.565990	100.0000%	42.9770%	
			Epoxy Resin#1	Epoxy Resin#1	Epoxy Resin#1	Proprietary	0.000651920	0.651920	3.5000%	0.6017%	
			Epoxy Resin#2	Epoxy Resin#2	Epoxy Resin#2	Proprietary	0.000186260	0.186260	3.5000%	0.1719%	
			Epoxy Resin#3	Epoxy Resin#3	Epoxy Resin#3	Proprietary	0.001862640	1.862640	4.5000%	1.7191%	
			Carbon black	Carbon black	Carbon black	1333-86-4	0.000093130	0.093130	0.3000%	0.0860%	
			Silica	Silica	Silica	60676-86-0	0.042142230	42.142230	87.0000%	38.8942%	
			Hardener	Hardener	Hardener	Proprietary	0.001629810	1.629810	1.2000%	1.5042%	
			<b>Plating</b>			sub mass	0.001585240	1.585240	100.0000%	1.4631%	
			Sn	Sn	Sn	7440-31-5	0.001585240	1.585240	100.0000%	1.4631%	
			<b>Silicon Chip ( sub mass )</b>			sub mass	0.003179157	3.179157	100.0000%	2.9341%	
				Si	Silicon ( Si )	7440-21-3	0.003179157	3.179157	100.0000%	2.9341%	
							<b>Total mass (g)</b>	<b>0.1084</b>	<b>108.3508</b>	<b>100.000%</b>	

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