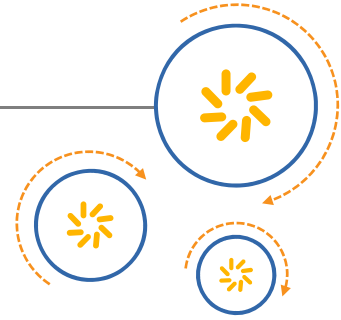




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Document Title: Environmental Compliance Report
Product Code: CSR8670C-ICXT-R
Cognidox Ref.: CS-218485-RP
Issue: Issue 2
Date Issued: 19-Dec-12

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CSR Product	CSR8670C-ICXT-R			Product Environmental Status	Definition of EU RoHS:	Product meets the requirements of Directive 2002/95/EC of the European Parliament and of the Council on the Restriction of Hazardous Substances.
Package	4790 x 4680 x 600µm (79 Solder Balls)	Material Environmental Status	Link to Lab Analysis Reports	CSR 'GREEN' Compliant	Definition of CSR 'GREEN':	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
Die Size	4790 x 4680 x 330µm	CSR Green	CS-231362-RP			
Polymer Material	Hitachi DuPont PBO (2 layers)					
RDL	Ti/Cu/Cu 0.5/3/40 kA					
UBM	Ti/Cu/Cu 0.5/3/84 kA					
Solder Balls	0.3mm diam Sn/Ag/Cu 95.5/4.0/0.5 SAC405					
				Env. Compliance Statement		
				CB-001036-ST		

Manufacturer contact information		MATERIAL DATA FORM							
Contact:	product.compliance@csr.com								

Manufacturer name.	Total Mass of the Unit specified in (mg):	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. (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 / TSMC	26.19074	WLCSP								
			Polymer Layer 1				sub mass	0.24698	0.9665%	0.9430%
			PBO-1 polymer resin	HD8820 PBO	PBO resin	Proprietary	0.24698	0.9665%	0.9430%	
			Runner Metal Sputter (RDL)				sub mass	0.40002	0.8416%	1.5273%
			Ti	Titanium Target	Titanium	7440-32-6	0.00234	0.0091%	0.0089%	
			Cu	Copper Target	Copper	7440-50-8	0.02775	0.1086%	0.1059%	
			Cu	Plated Copper	Copper	7440-50-8	0.36994	0.7239%	1.4125%	
			Polymer Layer 2				sub mass	0.20568	0.00805	0.00785
			PBO-2 polymer resin	HD8820 PBO	PBO resin	Proprietary	0.20568	0.00805	0.00785	
			UBM Metal Sputter				sub mass	0.42009	1.3493%	1.6040%
			Ti	Titanium Target	Titanium	7440-32-6	0.00119	0.00005	0.00005	
			Cu	Copper Target	Copper	7440-50-8	0.01412	0.00055	0.00054	
			Cu	Plated Copper	Copper	7440-50-8	0.40478	0.01289	0.01546	
			Solder Sphere				sub mass	8.18733	30.4539%	31.2604%
			Sn	Tin (Sn)	Tin (Sn)	7440-31-5	7.81890	29.0835%	29.8537%	
			Ag	Silver (Ag)	Silver (Ag)	7440-22-4	0.32749	1.2182%	1.2504%	
			Cu	Copper (Cu)	Copper (Cu)	7440-50-8	0.04094	0.1523%	0.1563%	
			Silicon Chip (sub mass)				sub mass	16.73065	65.4753%	63.8800%
			Silicon	Si	Si	7440-21-3	16.73065	65.4753%	63.8800%	
							Total mass (mg)	26.19074	100.0000%	

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