Compliant with IEC 62474/ D9.00 Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: SS (J2X) 024 SSOP .209in Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
,		"Contained In"	% I otal			121.55	(mg) Total	Mold Compound	% ot Total Weight	e3 65.17
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm		(3,			1
Silica, vitreous	60676-86-0	Mold Compound	55.395	103.316	553,945		Silica, vitreous	60676-86-0	85.00	
Epoxy Resin (No bromine, No diantimony trioxide)	Trade Secret	Mold Compound	3.992	7.445	39,917		Epoxy Resin	Trade Secret	6.13	
Phenolic Resin (No Br / CL SbO3, No diantimony trioxide)	Trade Secret	Mold Compound	3.992	7.445	39,917		Phenolic Resin	Trade Secret	6.13	
Epoxy, Cresol Novolac	29690-82-2	Mold Compound	1.597	2.978	15,967		Epoxy, Cresol Novolac	29690-82-2	2.45	
Carbon Black	1333-86-4	Mold Compound	0.196	0.365	1,955		Carbon Black	1333-86-4	0.30	1
Copper	7440-50-8	Lead Frame	28.222	52.636	282,218			Total	100.00	
Iron	7439-89-6	Lead Frame	0.694	1.295	6,942	55.10	(mg) Total	Lead Frame	% of Total Weight	29.54
Silver	7440-22-4	Lead Frame	0.563	1.050	5,627		Copper	7440-50-8	95.54	4
Zinc	7440-66-6	Lead Frame	0.037	0.069	369		Iron	7439-89-6	2.35	4
Phosphorous	7723-14-0	Lead Frame	0.024	0.045	244		Silver	7440-22-4	1.91	4
Silver Epoxy resin	7440-22-4 Trade Secret	Die Attach Die Attach	0.622 0.168	1.159 0.313	6,216 1,680		Zinc Phosphorous	7440-66-6 7723-14-0	0.13 0.08	ł
Epoxy resin Metal oxide	Trade Secret	Die Attach	0.168	0.313	252		Priospriorous	7723-14-0 Total	0.08	
Gamma-butyrolactone	96-48-0	Die Attach	0.025	0.047	252	1.57	(mg) Total	Die Attach	% of Total Weight	0.84
Silicon	7440-21-3	Chip (Die)	2.490	4.644	24,900		Silver	7440-22-4	74.00	
Gold	7440-57-5	Wire Bond	0.250	0.466	2,500		Epoxy resin	Trade Secret	20.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.710	3.189	17,100		Metal oxide	Trade Secret	3.00	4
		TOTALS:	100.000	186.510	1,000,000		Gamma-butyrolactone	96-48-0	3.00	<u> </u>
0.1865 g Total Mass						Total 100.00				
This semiconductor device and its homogenous materials comply w 2015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption	(zero)		8 June 2011) ar	id 2015/863/EU	J (31 March	4.64	Total (mg)	Chip (Die)	% of Total Weight	2.49
Compliance with the above EU Directives has been verified via interest	nal design contro	ls, supplier declarations, and /or analytical test data.					Doped Silicon	7440-21-3	100.00	
If a chemical substance is absent from the list above, the chemical s Incorporated's knowledge and belief as of the date of this document any, is not below the threshold of regulatory concern for any regulat	, there is no cred ory scheme worl	ible reason to believe that the unavoidable impurity conce d-wide.	ntration of the	chemical subs				Total	100.00	
Molding compounds used by Microchip meet the UL94 V0 flammability standard for plastics. You can access the UL iQTM family of databases to obtain a test report at http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/						0.47	(mg) Total	Wire Bond	% of Total Weight	0.25
The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.							Doped Gold	7440-57-5	100.00	
Miles able Taskerslam becomes at all allows the left 1971 1971		and at a constant at the PallO in Minarchia T. C. C.						Total	100.00	1
Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their original packing materials is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Material Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these parts and the average weight of anticipated significant toxic metals components. These estimates do not include trace levels of dopants, metals, and non-metal materials contained within silicon devices (silicon IC) in the finished parts.										
Microchip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product warranties provided by Microchip Technology Incorporated and its subsidiaries are contained in Microchip's standard terms and conditions of sale. These are provided in Microchip's quotations, sales order acknowledgement, and invoices.						3.19	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weight	1.71
Microchip disclaims any duty to notify users of updates or changes to Material Content Declarations and shall not be liable for any damages, direct or indirect, consequential or otherwise, suffered by users or third parties as a result of the users' reliance on the information in Material Content Declarations (MCD) or independent third party test reports (SGS) or of this Certificate of Compliance for semiconductor products.							Tin	7440-31-5	100.00	
Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at http://echa.europa.eu/web/guest/candidate-list-table								Total	100.00	•
-						186.510				100.00

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