Compliant with IEC 62474/ D9.00

MICROCHIP Semiconductor Device Type: P (D2X) 014 PDIP .300in Matte Tin			Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				JEDEC 97 Product Marking and/or Pkg. Labeling e3
		"Contained In"	% Total	1				1		I
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	760.73	(mg) Total	Mold Compound	% ot Total Weigh	t 79.8
Fused Silica	60676-86-0	Mold Compound	57.456	547.728	574,560		Fused Silica	60676-86-0	72.00	1
Metal Hydro Oxide	Trade Secret	Mold Compound	8,778	83,681	87,780		Metal Hydro Oxide	Trade Secret	11.00	1
Epoxy Resin	Trade Secret	Mold Compound	5.586	53,251	55,860		Epoxy Resin	Trade Secret	7.00	1
Phenol Resin	Trade Secret	Mold Compound	5.586	53.251	55,860		Phenol Resin	Trade Secret	7.00	
SiO2	14808-60-7	Mold Compound	1.995	19.018	19,950		SiO2	14808-60-7	2.50	
Carbon Black	1333-86-4	Mold Compound	0.399	3.804	3,990		Carbon Black	1333-86-4	0.50	
Copper	7440-50-8	Lead Frame	10.031	95.630	100,314			Total	100.00)
Iron	7439-89-6	Lead Frame	0.247	2.352	2,468	100.10	(mg) Total	Lead Frame	% of Total Weigh	t 10.5
Silver	7440-22-4	Lead Frame	0.200	1.907	2,000		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.013	0.125	131		Iron	7439-89-6	2.35	1
Phosphorous	7723-14-0	Lead Frame	0.009	0.083	87		Silver	7440-22-4	1.91	
Silver	7440-22-4	Die Attach	0.550	5.245	5,502		Zinc	7440-66-6	0.13	
Epoxy Resin	9003-36-5	Die Attach	0.110	1.049	1,100		Phosphorous	7723-14-0	0.08	
Diluent	3101-60-8	Die Attach	0.055	0.524	550			Total	100.00	<u> </u>
Phenolic hardener	Trade secret	Die Attach	0.022	0.209	220	7.15	(mg) Total	Die Attach	% of Total Weigh	t_ 0.75
Amine type hardener	827-43-0	Die Attach	0.011	0.105	110		Silver	7440-22-4	73.36	
Dicyandiamide	461-58-5	Die Attach	0.002	0.017	18		Epoxy Resin	9003-36-5	14.67	
Silicon	7440-21-3	Chip (Die)	7.500	71.498	75,000		Diluent	3101-60-8	7.33	
Copper	7440-50-8	Wire Bond Copper palladium coated (CuPd)	0.197	1.873	1,965		Phenolic hardener	Trade secret	2.93	
Palladium	7440-05-3	Wire Bond Copper palladium coated (CuPd)	0.004	0.033	35		Amine type hardener	827-43-0	1.47	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.250	11.916	12,500		Dicyandiamide	461-58-5	0.24	
		TOTALS:	100.000	953.300	1,000,000			Total	100.00	
	0.9533	g Total Mass				71.50	Total (mg)	Chip (Die)	% of Total Weigh	t 7.5
his semiconductor device and its homogenous materials co 015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exe		: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08	3 June 2011) ar	d 2015/863/EU	J (31 March		Doped Silicon	7440-21-3	100.00	
compliance with the above EU Directives has been verified v	ia internal design contro	ls, supplier declarations, and /or analytical test data.						Total	100.00	7
If a chemical substance is absent from the list above, the chemical substance is NOT an intentional ingredient in the semiconductor device and, to the best of Microchip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity concentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.					1.91	(mg) Total	Wire Bond Copper palladium coated (CuPd)	% of Total Weigh		
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/							Copper	7440-50-8	98.25	
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.						Palladium	7440-05-3	1.75		
								Total	100.00	5
Microchip Technology Incorporated believes the information their original packing materials is true and correct to the bes completeness and accuracy of data in this form because it has information is often protected from disclosure as trade secre provided only as estimates of the average weight of these pa of dopants, metals, and non-metal materials contained within	t of its knowledge and be as been compiled based ets and some information rts and the average weig	elief, as of the date listed in this form. Microchip Technolog on the ranges provided in Material Safety Data Sheets prov in may not have been provided by subcontract assemblers a ht of anticipated significant toxic metals components. The	y Incorporated rided by raw m and raw materi	l cannot guara aterial supplie al suppliers. Ir	antee the ers. Supplier nformation is					
dicrochip 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.					11.92	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weigh	t 1.25	
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 nttp://echa.europa.eu/web/guest/candidate-list-table								Total	100.00)

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