Semiconductor Device Type: H2A         H2A 008 VDFN 2x2x0.9mm NiPdAu			Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)				J-STD-609A Product Marking and/or Pkg. Labeling e4
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	5.00	(mg) Total	Mold Compound	% ot Total Weight	45.87
Silica, fused	60676-86-0	Mold Compound	39.540	4.310	395,399		Silica, fused	60676-86-0	86.20	
Epoxy Resin	Trade Secret	Mold Compound	2.752	0.300	27,522	1	Epoxy Resin	Trade Secret	6.00	
Phenolic Resin A	Trade Secret	Mold Compound	2.752	0.300	27,522		Phenolic Resin A	Trade Secret	6.00	
Aluminium hydroxide	21645-51-2	Mold Compound	0.688	0.075	6,881		Aluminium hydroxide	21645-51-2	1.50	
Carbon Black	1333-86-4	Mold Compound	0.138	0.015	1,376		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	43.084	4.696	430,844			Total	100.00	
Iron	7439-89-6	Lead Frame	1.018	0.111	10,184	4.83	(mg) Total	Lead Frame	% of Total Weight	44.28
Phosphorous	7723-14-0	Lead Frame	0.111	0.012	1,107		Copper	7440-50-8	97.30	
Zinc (Metal)	7440-66-6	Lead Frame	0.066	0.007	664		Iron	7439-89-6	2.30	
Silver	7440-22-4	Die Attach	0.814	0.089	8,140		Phosphorous	7723-14-0	0.25	
Epoxy resin	68475-94-5	Die Attach	0.220	0.024	2,200		Zinc (Metal)	7440-66-6	0.15	
Copper(II) oxide	1317-38-0	Die Attach	0.033	0.004	330			Total	100.00	
Gamma-butyrolactone	96-48-0	Die Attach	0.033	0.004	330	0.12	(mg) Total	Die Attach	% of Total Weight	1.10
Silicon	7440-21-3	Chip (Die)	7.470	0.814	74,700		Silver	7440-22-4	74.00	
Gold	7440-57-5	Wire Bond	0.080	0.009	800		Epoxy resin	68475-94-5	20.00	
Nickel	7440-02-0	Plating on external leads (pins)	1.080	0.118	10,800	1	Copper(II) oxide	1317-38-0	3.00	
Palladium	7440-05-3	Plating on external leads (pins)	0.060	0.007	600	1	Gamma-butyrolactone	96-48-0	3.00	
Gold	7440-57-5	Plating on external leads (pins)	0.060	0.007	600	1		Total	100.00	
		TOTALS	100.000	10.900	1.000.000	0.81	Total (mg)	Chip (Die)	% of Total Weight	7.47
	0.01000	Total Mass			,,		Doped Silicon	7440-21-3	100.00	
5/863/EU (31 March 2015) and 2002/53/EC (End- npliance with the above EU Directives has been	•	, , , ,								
		<b>o i i i</b>	•			0.01	(mg) Total	Wire Bond	% of Total Weight	0.08
rochip Technology Incorporated's knowledge ar icentration of the chemical substance, if any, is i	nd belief as of the o not below the three	ostance is NOT an intentional ingredient in the late of this document, there is no credible reas shold of regulatory concern for any regulatory	semiconductor d on to believe tha scheme world-wi	levice and, to t t the unavoida de.	ble impurity	0.01	(mg) Total Gold	7440-57-5	100.00	0.08
rochip Technology Incorporated's knowledge ar neentration of the chemical substance, if any, is a Iding compounds used by Microchip meet the UL	nd belief as of the o not below the thres L94 V0 flammability	ostance is NOT an intentional ingredient in the late of this document, there is no credible reas shold of regulatory concern for any regulatory standard for plastics. You can access the UL	semiconductor d on to believe tha scheme world-wi	levice and, to t t the unavoida de.	ble impurity	0.01				0.08
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a chemical substance is absent from the list abov crochip Technology Incorporated's knowledge ar ncentration of the chemical substance, if any, is i olding compounds used by Microchip meet the UL oort at http://ul.com/global/eng/pages/offerings/in e protective "tubes" in which the specific produc- the outer box and certain "reels" may be made f crochip Technology Incorporated believes the inf miconductor devices in their original packing mai chnology Incorporated cannot guarantee the con- terial Safety Data Sheets provided by raw materia t have been provided by subcontract assemblers a average weight of anticipated significant toxic n ntained within silicon devices (silicon IC) in the fi crochip Technology Incorporated des not provi- ted product warranties provided by Microchip T ese are provided in Microchip's quotations, sales crochip disclaims any duty to notify users of updi nsequential or otherwise, suffered by users or thi ependent third party test reports (SGS) or of this	nd belief as of the of not below the three L94 V0 flammability dustries/chemicals ct is shipped are ma from PVC plastic. formation in this fo iterials is true and of mpleteness and acc al suppliers. Suppliers. Suppliers. Suppliers. Suppliers. Suppliers entals components inished parts. de any warranty, ep echnology Incorpo s order acknowledg lates or changes to ird parties as a res	ostance is NOT an intentional ingredient in the late of this document, there is no credible reas shold of regulatory concern for any regulatory s standard for plastics. You can access the UL is /plastics/ ade from polyvinyl chloride (PVC) plastic. "Win rm concerning substances restricted by RoHS correct to the best of its knowledge and belief, suracy of data in this form because it has been ler information is often protected from disclosu suppliers. Information is provided only as estim . These estimates do not include trace levels o trated and its subsidiaries are contained in Micr jement, and invoices. Material Content Declarations and shall not be ut of the users' reliance on the information in be	semiconductor d on to believe that scheme world-win iQTM family of dat dow envelopes" in Microchip Tec as of the date list compiled based ure as trade secre tates of the avera f dopants, metals on provided in thi rochip's standard	levice and, to t t the unavoidal de. atabases to obd used to hold th hnology Incorp ted in this form on the ranges ets and some in tge weight of tt s, and non-met is declaration. d terms and cou mages, direct	ole impurity ain a test e packing slip porated's . Microchip provided in formation may sees parts and al materials The exclusive, nditions of sale. or indirect,		Gold (mg) Total Nickel	7440-57-5 Total Plating on external leads (pins) 7440-02-0	100.00 100.00 % of Total Weight 90.00	

10.90