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

AICROCHIP Semiconductor Device Type:	Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				J-STD-609A Product Marking and/or Pkg. Labeling e3		
Basic Substance	JZA CAS Number	004 VDFN 5x7x0.9mm NiPdAu "Contained In" Sub-Component	% Total Weight	mg/part	ppm	40.19	(mg) Total	Mold Compound	% ot Total Weigh	
Silica, vitreous (or fused)	60676-86-0	Mold Compound	39.585	34.161	395,845		Silica, vitreous (or fused)	60676-86-0	85.00	1
Epoxy Resin	Trade Secret	Mold Compound	3.958	3.416	39,585		Epoxy Resin	Trade Secret	8.50	-
Phenolic Resin	Trade Secret	Mold Compound	1.630	1.407	16,300		Phenolic Resin	Trade Secret	3.50	1
Silica, vitreous (or fused)	7631-86-9	Mold Compound	1.257	1.085	12,574		Silica, vitreous (or fused)	7631-86-9	2.70	
Carbon Black	1333-86-4	Mold Compound	0.140	0.121	1,397		Carbon Black	1333-86-4	0.30]
Copper Iron	7440-50-8 7439-89-6	Lead Frame Lead Frame	46.228 0.069	39.895 0.060	462,281 695	39.98	(mg) Total	Total Lead Frame	100.00 % of Total Weigh	
	7723-14-0	Lead Frame				39.90			·	1 46.33
Phosphorous Zinc (Metal)	7723-14-0 7440-66-6	Lead Frame Lead Frame	0.019 0.014	0.016 0.012	185 139		Copper	7440-50-8 7439-89-6	99.78 0.15	4
Silica Fused	60676-86-0	Die Attach 1	0.388	0.335	3,879		Phosphorous	7723-14-0	0.04	1
Epoxy Resin	120206-26-0	Die Attach 1	0.115	0.099	1,148		Zinc (Metal)	7440-66-6	0.03]
Poly(Bisphenol A-co-epichlorohydrin)	25068-38-6	Die Attach 1	0.087	0.075	874			Total	100.00)
Silver	7440-22-4	Die Attach 2	0.367	0.316	3,666	0.51	(mg) Total	Die Attach 1	% of Total Weigh	t 0.59
Acrylic Resin	Trade secret	Die Attach 2	0.103	0.089	1,034		Silica Fused	60676-86-0	65.74	
Doped Silicon	7440-21-3	Chip (Die) 1	2.590	2.235	25,900		Epoxy Resin Poly(Bisphenol A-co-	120206-26-0	19.45	1
Doped Silicon	7440-21-3	Chip (Die) 2	1.580	1.364	15,800		epichlorohydrin)	25068-38-6	14.81	
Doped Gold	7440-57-5	Wire Bond 1	0.360	0.311	3,600			Total		
Doped Gold	7440-57-5	Wire Bond 2	0.150	0.129	1,500	0.41	(mg) Total	Die Attach 2	% of Total Weigh	t 0.47
Nickel Palladium	7440-02-0 7440-05-3	Plating on external leads (pins) Plating on external leads (pins)	1.281 0.049	1.106 0.042	12,814 491		Silver Acrylic Resin	7440-22-4 Trade secret	78.00 22.00	4
Gold	7440-57-5	Plating on external leads (pins)	0.030	0.025	295		Acrylic Itesiii	Total	100.00	<u> </u>
TOTALS: 100.000 86.300 1,000,000 0.0863 g Total Mass nis semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015)							Total (mg) Doped Silicon	7440-21-3 Total	% of Total Weight 100 100.00	
2000/53/EC and 2016/774/EU (End-of-Life Vehicles (ELV) without pliance with the above EU Directives has been verified via interr		supplier declarations, and /or analytical test data.			ŀ	1.36	Total (mg)	Chip (Die) 2	% of Total Weigh	t 1.58
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 corporated'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 of the below the threshold of regulatory concern for any regulatory scheme world-wide.							Doped Silicon	7440-21-3	100	
ling compounds used by Microchip meet the UL94 V0 flammabili //ul.com/global/eng/pages/offerings/industries/chemicals/plastic	ty standard for pla	·			<u>_</u>			Total	100.00	<u> </u>
ne 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 ortain "reels" may be made from PVC plastic.						0.31	(mg) Total	Wire Bond 1	% of Total Weigh	t 0.36
Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their briginal 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 settinates 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.							Doped Gold	7440-57-5	100.00	
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crochip 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, fered 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 tifficate of Compliance for semiconductor products.						0.13	(mg) Total	Wire Bond 2	% of Total Weigh	t 0.15
embled package referenced above is EU REACH compliant based //echa.europa.eu/web/guest/candidate-list-table	on the latest SVH	C candidate list of ECHA which can be found at					Doped Gold	7440-57-5	100	
					ŀ	1.17	(mg) Total	Plating on external leads (pins)	% of Total Weigh	
					ŀ		Nickel	7440-02-0	94.22	
					ļ		Palladium	7440-02-0 7440-05-3	3.61	
					ļ		THORE	7440-02-0	3.61 2.17	

CuPd 16:19: 04/25/17