Compliant with IEC 62474/ D9.00

Semiconductor Device Type:	008 VDFN 2x2x0.9mm MatteTin	Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				J-STD-609A Product Marking and/or Pkg. Labeling e3	
		"Contained In"	% Total			5.19	() T-4-1	Mold Compound	% ot Total Weight	56.45
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	5.19	(mg) Total	Moia Compouna	% of Total Weight	56.45
Silica, vitreous (or fused)	60676-86-0	Mold Compound	47.983	4.414	479,825		Silica, vitreous (or fused)	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	4.911	0.452	49,112	1	Epoxy Resin	Trade Secret	8.70	
Phenolic Resin	Trade Secret	Mold Compound	3.387	0.312	33,870]	Phenolic Resin	Trade Secret	6.00	
Carbon Black	1333-86-4	Mold Compound	0.169	0.016	1,694]	Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	35.586	3.274	355,857	1		Total	100.00	
Silver	7440-22-4	Lead Frame	0.696	0.064	6,959	3.36	(mg) Total	Lead Frame	% of Total Weight	36.53
Tin	7440-31-5	Lead Frame	0.091	0.008	913		Copper	7440-50-8	97.42	
Chromium	7440-47-3	Lead Frame	0.091	0.008	913	1	Silver	7440-22-4	1.91	
Zinc	7440-66-6	Lead Frame	0.066	0.006	658	1	Tin	7440-31-5	0.25	
Silver	7440-22-4	Die Attach	1.011	0.093	10,114	1	Chromium	7440-47-3	0.25	
Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	Die Attach	0.070	0.006	695	1	Zinc	7440-66-6	0.18	
Methacrylic acid, isobornyl ester	7534-94-3	Die Attach	0.070	0.006	695	1		Total	100.00	
Exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	Die Attach	0.070	0.006	695	0.11	(mg) Total	Die Attach	% of Total Weight	1.22
Silicon	7440-21-3	Chip (Die)	4.150	0.382	41.500		Silver	7440-22-4	82.90	
Copper	7440-50-8	Wire Bond Copper palladium coated (CuPd)	0.413	0.038	4.127	Octahydro-4 7-m	ethano-1H-indenedivl)bis(m	42594-17-2	5.70	
Palladium	7440-05-3	Wire Bond Copper palladium coated (CuPd)	0.007	0.001	74		lethacrylic acid, isobornyl es	7534-94-3	5.70	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1,230	0.113	12,300		Trimethylbicyclo[2.2.1]hept-	5888-33-5	5.70	
		TOTALS:	100.000	9.200	1.000.000	1		Total	100.00	
0.0092 g Total Mass					.,000,000	0.38	Total (mg)	Chip (Die)	% of Total Weight	4.15
pliance with the above EU Directives has been verified via interna	•							Total	100.00	
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 y, is not below the threshold of regulatory concern for any regulatory scheme world-wide.						0.04	(mg) Total	Wire Bond Copper palladium coated (CuPd)	% of Total Weight	0.42
Iolding 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 ttp://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/							Copper	7440-50-8	98.25	
he 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 ertain "reels" may be made from PVC plastic.							Palladium	7440-05-3	1.75	
ochip Technology Incorporated believes the information in this fo original packing materials is true and correct to the best of its kn pleteness and accuracy of data in this form because it has been c mation is often protected from disclosure as trade secrets and so ided only as estimates of the average weight of these parts and it ppants, metals, and non-metal materials contained within silicon or	nowledge and be compiled based ome information he average weig	Hief, as of the date listed in this form. Microchip Technolog on the ranges provided in Material Safety Data Sheets pro may not have been provided by subcontract assemblers ht of anticipated significant toxic metals components. The	gy Incorporated vided by raw m and raw materi	d cannot guara aterial supplica al suppliers. In	antee the ers. Supplier nformation is	;		Total	100.00	
pants, metals, and non-metal materials contained within sincon s	crochip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product irranties 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 otations, sales order acknowledgement, and invoices.					0.11	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1	% of Total Weight	1.23
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ochip Technology Incorporated does not provide any warranty, ex anties provided by Microchip Technology Incorporated and its su	o Material Conte	nt Declarations and shall not be liable for any damages, di	irect or indirect	, consequenti			Tin		100.00	

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