Compliant with IEC 62474/ D9.00

MICROCHIP  Semiconductor Device Type: NU / ZA (Z2X) TQFP 128 14x14x1mm Matte Tin			Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				JEDEC 97 Product Marking and/or Pkg. Labeling
Semiconductor Devic	e rype: NU/ZA	(Z2X) TQFP 128 14x14x1mm Matte Tin								e3
		"Contained In"	% Total			372.52	(mg) Total	Mold Compound	% ot Total Weigh	t 66.82
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	012.02	, 5,			- 00.02
Silica Fused	60676-86-0	Mold Compound	58.982	328.825	589,820		Silica Fused	60676-86-0	88.27	
Epoxy Resin	Trade Secret	Mold Compound	4.170	23.245	41,696		Epoxy Resin	Trade Secret	6.24	
Phenol Resin Carbon Black	Trade Secret 1333-86-4	Mold Compound  Mold Compound	3.468 0.200	19.334 1.118	34,680		Phenol Resin Carbon Black	Trade Secret	5.19 0.30	
	7440-50-8	Lead Frame	25.658	143.043	2,005 256,579		Carbon black	1333-86-4 Total	100.00	4
Copper Nickel	7440-50-8	Lead Frame	0.684	3.815	6,843	150.19	(mg) Total	Lead Frame	% of Total Weigh	
Silver	7440-02-0	Lead Frame	0.664	2.507	4,496	150.19	Copper	7440-50-8	95.24	1 26.94
Silicon	7440-22-4	Lead Frame	0.430	0.676	1,212		Nickel	7440-02-0	2.54	
Magnesium	7439-95-4	Lead Frame	0.027	0.150	269		Silver	7440-22-4	1.67	-
Silver	7440-22-4	Die Attach	0.053	0.293	525		Silicon	7440-21-3	0.45	
Epoxy Resin	Trade secret	Die Attach	0.007	0.039	70		Magnesium	7439-95-4	0.10	
Diluent	Trade secret	Die Attach	0.007	0.039	70	Į.		Total	100.00	)
Hardener	Trade secret	Die Attach	0.004	0.020	35	0.39	(mg) Total	Die Attach	% of Total Weigh	t 0.07
Silicon	7440-21-3	Chip (Die)	4.760	26.537	47.600		Silver	7440-22-4	75.00	
Copper	7440-50-8	Wire Bond Copper palladium coated (CuPd)	0.246	1.369	2,456		Epoxy Resin	Trade secret	10.00	
Palladium	7440-05-3	Wire Bond Copper palladium coated (CuPd)	0.004	0.024	44		Diluent	Trade secret	10.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.160	6.467	11,600		Hardener	Trade secret	5.00	
		TOTALS:	100.000	557.500	1,000,000			Total	100.00	)
	0.5575	g Total Mass				26.54	Total (mg)	Chip (Die)	% of Total Weigh	t 4.76
his semiconductor device and its homogenous materials 015) and 2002/53/EC (End-of-Life Vehicles (ELV) without e		2002/95/EC (27 January 2003) & Directive 2011/65/EU (08	June 2011) ar	id 2015/863/EU	J (31 March		Doped Silicon	7440-21-3	100.00	<u> </u>
compliance with the above EU Directives has been verified	l via internal design contro	s, supplier declarations, and /or analytical test data.						Total	100.00	)
	document, there is no cred	an intentional ingredient in the semiconductor device and, ble reason to believe that the unavoidable impurity concent I-wide.				1.39	(mg) Total	Wire Bond Copper palladium coated (CuPd)	% of Total Weigh	t 0.25
folding 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	
Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in						'		Total	100.00	<del>5</del>
their original packing materials is true and correct to the be completeness and accuracy of data in this form because it information is often protected from disclosure as trade sec	est of its knowledge and be has been compiled based crets and some information parts and the average weig	lief, as of the date listed in this form. Microchip Technology on the ranges provided in Material Safety Data Sheets provi may not have been provided by subcontract assemblers an ht of anticipated significant toxic metals components. Thes	Incorporated ded by raw maderi	l cannot guara aterial supplic al suppliers. Ir	entee the ers. Supplier oformation is					
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.						6.47	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weigh	t 1.16
flicrochip 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 therwise, 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 f this Certificate of Compliance for semiconductor products.							Tin	7440-31-5	100.00	
Assembled package referenced above is EU REACH comp http://echa.europa.eu/web/guest/candidate-list-table	liant based on the latest SV	HC candidate list of ECHA which can be found at						Total	100.00	)
						557.500				100.000

CuPd 3:53 PM : 8/17/2015