Compliant with IEC 62474/ D9.00

ICROCHIP Semiconductor Device Type:	KDX 100 VQFN 12X12X0.9mm Matte Tin		Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				J-STD-609A Product Marking and/or Pkg. Labeling e3
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	143.15	(mg) Total	Mold Compound	% ot Total Weight	48.51
Silica Fused	60676-86-0	Mold Compound	42.820	126.361	428.198		Silica Fused	60676-86-0	88.27	i e
Epoxy Resin	Trade Secret	Mold Compound	3.027	8.933	30,270		Epoxy Resin	Trade Secret	6.24	
Phenol Resin	Trade Secret	Mold Compound	2.518	7.430	25,177		Phenol Resin	Trade Secret	5.19	i
Carbon Black	1333-86-4	Mold Compound	0.146	0.429	1,455		Carbon Black	1333-86-4	0.30	i
Copper	7440-50-8	Lead Frame	44.690	131.880	446,899			Total	100.00	4
Iron	7439-89-6	Lead Frame	1.079	3.184	10,789	135.48	(mg) Total	Lead Frame	% of Total Weight	45.91
Zinc	7440-66-6	Lead Frame	0.057	0.169	574		Copper	7440-50-8	97.34	
Silver	7440-22-4	Lead Frame	0.046	0.135	459		Iron	7439-89-6	2.35	i
Phosphorus	7723-14-0	Lead Frame	0.038	0.112	379		Zinc	7440-66-6	0.13	
Silver	7440-22-4	Die Attach	0.578	1.704	5,775		Silver	7440-22-4	0.10	1
Acrylic Resin	Trade secret	Die Attach	0.064	0.188	638		Phosphorus	7723-14-0	0.08	1
Coplolymer	Trade secret	Die Attach	0.049	0.144	488			Total	100.00	
Acrylated EP-Resin	Trade secret	Die Attach	0.041	0.122	413	2.21	(mg) Total	Die Attach	% of Total Weight	0.75
Epoxy Resin	Trade secret	Die Attach	0.019	0.055	188		Silver	7440-22-4	77.00	1
Silicon	7440-21-3	Chip (Die)	2.500	7.378	25.000		Acrylic Resin	Trade secret	8.50	i
Copper	7440-50-8	Wire Bond Copper palladium coated (CuPd)	0.560	1.653	5,600		Coplolymer	Trade secret	6.50	1
Palladium	7440-05-3	Wire Bond Copper palladium coated (CuPd)	0.010	0.029	100		Acrylated EP-Resin	Trade secret	5.50	1
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.760	5.194	17,600		Epoxy Resin	Trade secret	2.50	i
		TOTALS:	100.000	295.100	1.000.000			Total	100.00	
0.2951 g Total Mass					7.38	Total (mg)	Chip (Die)	% of Total Weight		
is 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						Doped Silicon	7440-21-3	100.00	1	
15) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero) Impliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.							Вород Стост	Total	100.00	<u>J</u>
named with the above Eo birectives has been verified via interna-	_		to the best of	Microchin Tec	chnology			Wire Bond		
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.						1.68	(mg) Total	Copper palladium coated (CuPd)	% of Total Weight	0.57
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	
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	
chip Technology Incorporated believes the information in this fo original packing materials is true and correct to the best of its kin leteness and accuracy of data in this form because it has been con nation is often protected from disclosure as trade secrets and so led only as estimates of the average weight of these parts and th pants, metals, and non-metal materials contained within silicon d	owledge and be compiled based ome information he average weig	lief, as of the date listed in this form. Microchip Technolog on the ranges provided in Material Safety Data Sheets prov may not have been provided by subcontract assemblers a nt of anticipated significant toxic metals components. The	y Incorporated rided by raw m and raw materi	d cannot guara aterial supplie al suppliers. Ir	antee the ers. Supplier nformation is			Total	100.00	
	icrochip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product arranties 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 lotations, sales order acknowledgement, and invoices.						(m. m) Tatal	Plating on external leads (pins) - Matte Tin /		
chip Technology Incorporated does not provide any warranty, ex nties provided by Microchip Technology Incorporated and its sul			sale. These are	provided in M	Microchip's	5.19	(mg) Total	annealed at 150°C for 1 hour	% of Total Weight	1.76
chip Technology Incorporated does not provide any warranty, ex nties provided by Microchip Technology Incorporated and its sul	bsidiaries are co	ontained in Microchip's standard terms and conditions of some	ect or indirect	, consequentia	al or	5.19	(mg) Total	annealed at 150°C for 1	% of Total Weight	1.76

PdCu 10:37 : 11/08/16