Compliant with IEC 62474/ D9.00

MICROCHIP  Semiconductor Device Type: Y6X 48 VQFN 7x7x1.0mm Matte Tin			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 e3	
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	maa	65.66	(mg) Total	Mold Compound	% ot Total Weight	50.51
Silica, fused	60676-86-0	Mold Compound	45,459	59.097	454.590		Silica, fused	60676-86-0	90.00	
Epoxy Resin	Trade Secret	Mold Compound	2.450	3.185	24.497		Epoxy Resin	Trade Secret	4.85	
Phenolic Resin	Trade Secret	Mold Compound	2.450	3.185	24.497		Phenolic Resin	Trade Secret	4.85	
Carbon Black	1333-86-4	Mold Compound	0.152	0.197	1,515		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	42.275	54.958	422,753			Total	100.00	
Iron	7439-89-6	Lead Frame	1.040	1.352	10,399	57.53	(mg) Total	Lead Frame	% of Total Weight	44.25
Silver	7440-22-4	Lead Frame	0.843	1.096	8.430	37.33	Copper	7440-50-8	95.54	44.23
Zinc	7440-22-4	Lead Frame	0.043	0.072	553		Iron	7440-50-8	2.35	
Phosphorous	7723-14-0	Lead Frame	0.037	0.072	365		Silver	7439-89-6	1.91	
					1.900					
Silver	7440-22-4	Die Attach	0.190 0.038	0.247	1,900 375		Zinc	7440-66-6	0.13	
Carbocyclic acrylate	Trade Secret	Die Attach		0.049			Phosphorous	7723-14-0	0.08	
Bismaleimide resin	Trade Secret	Die Attach	0.008	0.010	75			Total	100.00	
Acrylate	Trade Secret	Die Attach	0.015	0.020	150	0.33	(mg) Total	Die Attach	% of Total Weight	0.25
Silicon	7440-21-3	Chip (Die)	2.580	3.354	25,800		Silver	7440-22-4	76.00	
Gold	7440-57-5	Wire Bond	0.220	0.286	2,200		Carbocyclic acrylate	Trade Secret	15.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	2.190	2.847	21,900		Bismaleimide resin	Trade Secret	3.00	
		TOTALS:	100.000	130.000	1,000,000		Acrylate	Trade Secret	6.00	
	0.1300	g Total Mass			, ,	,	•	Total	100.00	J
100/53/EC and 2016/774/EU (End-of-Life Vehicles (ELV) without exemption (zero) compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.  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 not show the threshold of regulatory concern for any regulatory scheme world-wide								Chin (Die)	% of Total Weight	2 58
hiemical substance is absent from the list above, the chemical s rporated's knowledge and belief as of the date of this document	ubstance is NOT , there is no cred	an intentional ingredient in the semiconductor device and				3.35	Total (mg)  Doped Silicon	7440-21-3 Total	% of Total Weight 100.00 100.00	2.58
chemical substance is absent from the list above, the chemical s proprated's knowledge and belief as of the date of this document by the threshold of regulatory concern for any regulatory schem	ubstance is NOT , there is no cred world-wide.	an intentional ingredient in the semiconductor device and ible reason to believe that the unavoidable impurity concerns	entration of the cher	nical substan			Doped Silicon	7440-21-3 Total	100.00	
hemical substance is absent from the list above, the chemical s porated's knowledge and belief as of the date of this document w the threshold of regulatory concern for any regulatory schem ing compounds used by Microchip meet the UL94 V0 flammabil protective "tubes" in which the specific product is shipped are r s" may be made from PVC plastic.	ubstance is NOI , there is no cred e world-wide. ity standard for nade from polyv	an intentional ingredient in the semiconductor device an- ible reason to believe that the unavoidable impurity conce plastics. You can access the UL iQTM family of databases inyl chloride (PVC) plastic. "Window envelopes" used to h	entration of the cher to obtain a test repo old the packing slip	nical substan ort at on the outer	ce, if any, is not	0.29	( 3,	7440-21-3	100.00	0.22
chemical substance is absent from the list above, the chemical supporated's knowledge and belief as of the date of this document with the threshold of regulatory concern for any regulatory scheming compounds used by Microchip meet the UL94 V0 flammabil protective "tubes" in which the specific product is shipped are rels" may be made from PVC plastic. rochip Technology incorporated believes the information in this inal packing materials is true and correct to the best of its knowl accuracy of data in this form because it has been compiled base tected from disclosure as trade secrets and some information may be average weight of these parts and the average weight of antic	ubstance is NOT, there is no crece world-wide. ity standard for made from polyworm concerning edge and belief, ad on the ranges y not have beer pated significan	an intentional ingredient in the semiconductor device an ible reason to believe that the unavoidable impurity concuplastics. You can access the UL iQTM family of databases inyl chloride (PVC) plastic. "Window envelopes" used to be substances restricted by RoHS in Microchip Technology as of the date listed in this form. Microchip Technology in provided in Material Safety Data Sheets provided by raw in provided by subcontract assemblers and raw material su	entration of the chemic to obtain a test report of the packing slip incorporated's semi corporated cannot canterial suppliers. Information	ort at on the outer conductor de guarantee the upplier inforr is provided o	box and certain evices in their completeness nation is often only as estimates		Doped Silicon  (mg) Total	7440-21-3 Total Wire Bond	100.00 100.00 % of Total Weight	
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chemical substance is absent from the list above, the chemical supporated's knowledge and belief as of the date of this document with the threshold of regulatory concern for any regulatory schemding compounds used by Microchip meet the UL94 V0 flammabil protective "tubes" in which the specific product is shipped are relst" may be made from PVC plastic.  Trochip Technology Incorporated believes the information in this inal packing materials is true and correct to the best of its knowl accuracy of data in this form because it has been compiled base tected from disclosure as trade secrets and some information made average weight of these parts and the average weight of anticerials contained within silicon devices (silicon IC) in the finished rochip Technology Incorporated does not provide any warranty, vided by Microchip Technology Incorporated and its subsidiaries	ubstance is NOT there is no cree e world-wide ity standard for made from polyv form concerning edge and belief, do nt her anges by not have beer pated significan parts. express or impli- are contained in to Material Contr	an intentional ingredient in the semiconductor device an ible reason to believe that the unavoidable impurity concuplastics. You can access the UL iQTM family of databases inyl chloride (PVC) plastic. "Window envelopes" used to he substances restricted by RoHS in Microchip Technology as of the date listed in this form. Microchip Technology in provided in Material Safety Data Sheets provided by raw in provided by subcontract assemblers and raw material sult toxic metals components. These estimates do not included, with respect to the information provided in this declaration in Microchip's standard terms and conditions of sale. These the Declarations and shall not be liable for any damages, determined the control of th	entration of the cher to obtain a test repo old the packing slip incorporated's semi corporated cannot on naterial suppliers. S oppliers. Information e trace levels of dop attion. The exclusive, e are provided in Micirect or indirect, cor	ort at on the outer conductor de guarantee the upplier inforr is provided c aants, metals, limited prodi crochip's que	box and certain evices in their completeness nation is often only as estimates and non-metal uct warranties tations, sales r otherwise,	0.29	Doped Silicon  (mg) Total  Gold	7440-21-3 Total Wire Bond 7440-57-5 Total  Platting on external leads (pins) - Matter Tin/ annealed at 150°C for 1	100.00 100.00 % of Total Weight 100.00	0.22

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