Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: CYX 008 SOIC .150in 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	ppm	48.38	(mg) Total	Mold Compound	% ot Total Weight	62.02
Silica, vitreous	60676-86-0	Mold Compound	53.902	42.043	539,016		Silica, vitreous	60676-86-0	86.91	
Epoxy Resin (No bromine, No diantimony trioxide)	Trade Secret	Mold Compound	4.757	3,710	47.569		Epoxy Resin	Trade Secret	7.67	
Phenolic Resin (No Br / CL SbO3, No diantimony trioxide)	Trade Secret	Mold Compound	3.169	2.472	31,692		Phenolic Resin	Trade Secret	5.11	
Carbon Black	1333-86-4	Mold Compound	0.192	0.150	1,923		Carbon Black	1333-86-4	0.31	
Copper	7440-50-8	Lead Frame	29.626	23.108	296,262			Total	100.00	4
Iron	7439-89-6	Lead Frame	0.729	0.568	7,287	24.19	(mg) Total	Lead Frame	% of Total Weight	31.01
Silver	7440-22-4	Lead Frame	0.591	0.461	5.907		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.039	0.030	388		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.026	0.020	256		Silver	7440-22-4	1.91	
Epoxy Resin	Trade Secret	Die Attach	0.938	0.731	9,375		Zinc	7440-66-6	0.13	
Metal oxide, hydroxide or salt ISO 1043-4, not declarable	Trade Secret	Die Attach	0.495	0.386	4,950		Phosphorous	7723-14-0	0.08	
Silica compound ISO 1043-4, not declarable	Trade Secret	Die Attach	0.068	0.053	675			Total	100.00	<u>s</u>
Silicon	7440-21-3	Chip (Die)	2.710	2.114	27,100	1.17	(mg) Total	Die Attach	% of Total Weight	1.5
Gold	7440-57-5	Wire Bond	0.310	0.242	3.100		Epoxy Resin	Trade Secret	62.50	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	2,450	1.911	24.500	M	letal oxide, hydroxide or salt	Trade Secret	33.00	
		TOTALS:	100.000	78.000	1.000.000		Silica compound	Trade Secret	4.50	
	0.0790	g Total Mass			,,			Total	100.00	1
This 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) and 2002/53/EC (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. If 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 incorporated'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 below the threshold of requilatory concern for any regulatory scheme world-wide.					2.11	Total (mg) Doped Silicon	Chip (Die) 7440-21-3 Total	% of Total Weight 100.00 100.00	2.71	
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/						0.24	(mg) Total	Wire Bond	% of Total Weight	0.31
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.							Gold	7440-57-5	100.00	
	form concerning	substances restricted by RoHS in Microchip Technology	Incorporated's som							
licrochip Technology Incorporated believes the information in this in riginal packing materials is true and correct to the best of its knowl nd accuracy of data in this form because it has been compiled base rotected from disclosure as trade secrets and some information ma if the average weight of these parts and the average weight of anticit laterials contained within silicon devices (silicon IC) in the finished	ledge and belief, ed on the ranges ay not have been ipated significan	provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material su	ncorporated cannot material suppliers. Suppliers. Suppliers. Information	guarantee the Supplier inform is provided of	e completeness mation is often only as estimates			Total	100.00	
riginal packing materials is true and correct to the best of its knowl nd accuracy of data in this form because it has been compiled base rotected from disclosure as trade secrets and some information ma f the average weight of these parts and the average weight of antici laterials contained within silicon devices (silicon IC) in the finished licrochip Technology Incorporated does not provide any warranty, rovided by Microchip Technology Incorporated and its subsidiaries rder acknowledgement, and invoices.	ledge and belief, ed on the ranges ay not have been ipated significan I parts. express or impli s are contained i	provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material su it toxic metals components. These estimates do not inclu- ed, with respect to the information provided in this declain in Microchip's standard terms and conditions of sale. The	ncorporated cannot material suppliers. ippliers. Information de trace levels of do ration. The exclusive se are provided in N	guarantee the Supplier inform is provided of pants, metals e, limited prod licrochip's qu	e completeness mation is often only as estimates , and non-metal duct warranties lotations, sales	1.91	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	100.00 % of Total Weight	2.45
riginal packing materials is true and correct to the best of its knowl nd accuracy of data in this form because it has been compiled base rotected from disclosure as trade secrets and some information ma f the average weight of these parts and the average weight of antici laterials contained within silicon devices (silicon IC) in the finished licrochip Technology Incorporated does not provide any warranty, rovided by Microchip Technology Incorporated and its subsidiaries	ledge and belief, ed on the ranges ay not have been ipated significan I parts. express or impli s are contained ii to Material Conton the information	provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material st it toxic metals components. These estimates do not inclu- ed, with respect to the information provided in this declar in Microchip's standard terms and conditions of sale. The ent Declarations and shall not be liable for any damages, in Material Content Declarations (MCD) or independent to	ncorporated cannot material suppliers. In ppliers. Information de trace levels of do ration. The exclusive se are provided in N direct or indirect, co	guarantee the Supplier inform is provided of pants, metals e, limited prod licrochip's que posequential of	e completeness mation is often only as estimates , and non-metal duct warranties totations, sales or otherwise,	1.91	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for		

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