Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP  Semiconductor Device Type: EQA 008 SOIC 3.9mm 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	52.70	(mg) Total	Mold Compound	% ot Total Weight	67.56
Silica, vitreous	60676-86-0	Mold Compound	57.426	44,792	574.260		Silica, vitreous	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	4.138	3,228	41,381		Epoxy Resin	Trade Secret	6.13	
Phenolic Resin	Trade Secret	Mold Compound	4.138	3.228	41,381		Phenolic Resin	Trade Secret	6.13	
Epoxy, Cresol Novolac	29690-82-2	Mold Compound	1.655	1.291	16,552		Epoxy, Cresol Novolac	29690-82-2	2.45	
Carbon Black	1333-86-4	Mold Compound	0.203	0.158	2,027		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	25.184	19.643	251,837		щ	Total	100.00	•
Iron	7439-89-6	Lead Frame	0.619	0.483	6,195	20.56	(mg) Total	Lead Frame	% of Total Weight	26.36
Silver	7440-22-4	Lead Frame	0.502	0.392	5,022		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.033	0.026	330		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.022	0.017	217		Silver	7440-22-4	1.91	
Silver	7440-22-4	Die Attach	1.155	0.901	11,550		Zinc	7440-66-6	0.13	
Epoxy resin	68475-94-5	Die Attach	0.300	0.234	3,000		Phosphorous	7723-14-0	0.08	
Copper(II) oxide	1317-38-0	Die Attach	0.045	0.035	450			Total	100.00	
Silicon	7440-21-3	Chip (Die)	2.210	1.724	22,100	1.17	(mg) Total	Die Attach	% of Total Weight	1.5
Gold	7440-57-5	Wire Bond	0.430	0.335	4.300	8290	Silver	7440-22-4	77.00	1
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.940	1.513	19.400		Epoxy resin	68475-94-5	20.00	
		TOTALS	100.000	78.000	1.000.000		Copper(II) oxide	1317-38-0	3.00	
	0.0700	g Total Mass			1,000,000		Сорры(п) скас	Total	100.00	1
1 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero)  pliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.  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							Doped Silicon	7440-21-3 Total	100.00	
orporated's knowledge and belief as of the date of this documen below the threshold of regulatory concern for any regulatory sc ding compounds used by Microchip meet the UL94 V0 flammabi	t, there is no cre heme world-wide lity standard for	dible reason to believe that the unavoidable impurity cond e.	centration of the cl	nemical subst		0.34	(mg) Total	Wire Bond	% of Total Weight	0.43
p://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/ le 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						0.54	Gold	7440-57-5	100.00	0.43
tain "reels" may be made from PVC plastic. crochip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their								Total	100.00	J
inal packing materials is true and correct to the best of its know accuracy of data in this form because it has been compiled bas tected from disclosure as trade secrets and some information m	ledge and belief ed on the ranges ay not have beer ht of anticipated	as of the date listed in this form. Microchip Technology is provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material susignificant toxic metals components. These estimates do	Incorporated canno material suppliers uppliers. Information	ot guarantee t . Supplier info on is provided	the completeness ormation is often d only as				100.00	
imates of the average weight of these parts and the average weig n-metal materials contained within silicon devices (silicon IC) in t	crochip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product warranties by ided 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 are contained in Microchip's quotations, sales are contained in Microchip's quotations, sales are provided in						(mg) Total	Plating on external leads (pins) - Matte Tin	% of Total Weight	1.94
n-metal materials contained within silicon devices (silicon IC) in trochip Technology Incorporated does not provide any warranty, vided by Microchip Technology Incorporated and its subsidiarie				Microchip's o	quotations, sales	1.51	(mg) rotal	/ annealed at 150°C for 1 hour	% of Total Weight	1.54
n-metal materials contained within silicon devices (silicon IC) in trochip Technology Incorporated does not provide any warranty, vided by Microchip Technology Incorporated and its subsidiarie	s are contained i	in Microchip's standard terms and conditions of sale. The ent Declarations and shall not be liable for any damages,	se are provided in direct or indirect,	consequentia	I or otherwise,		Tin	1 hour 7440-31-5	100.00	1.54
I-metal materials contained within silicon devices (silicon IC) in to rochip Technology Incorporated does not provide any warranty, vided by Microchip Technology Incorporated and its subsidiarie er acknowledgement, and invoices. rochip disclaims any duty to notify users of updates or changes ered by users or third parties as a result of the users' reliance or	s are contained in to Material Content in the information	in Microchip's standard terms and conditions of sale. The ent Declarations and shall not be liable for any damages, n in Material Content Declarations (MCD) or independent t	se are provided in direct or indirect,	consequentia	I or otherwise,		\ <del>\</del>	1 hour		1.54

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