Compliant with IEC 62474/ D9.00

MICROCHIP  Semiconductor Device Type: OG (K3X) 024 SOIC .300in Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
Commoditation Device Type.		"Contained In"	% Total	1						e3
Basic Substance	<b>CAS Number</b>	Sub-Component	Weight	mg/part	ppm	462.27	(mg) Total	Mold Compound	% ot Total Weigh	69.83
Silica, vitreous	60676-86-0	Mold Compound	59.356	392.933	593,555		Silica, vitreous	60676-86-0	85.00	
Epoxy Resin (No bromine, No diantimony trioxide)	Trade Secret	Mold Compound	4.277	28.314	42,771	1	Epoxy Resin	Trade Secret	6.13	
Phenolic Resin (No Br / CL SbO3, No diantimony trioxide)	Trade Secret	Mold Compound	4.277	28.314	42,771		Phenolic Resin	Trade Secret	6.13	
Epoxy, Cresol Novolac	29690-82-2	Mold Compound	1.711	11.326	17,108		Epoxy, Cresol Novolac	29690-82-2	2.45	
Carbon Black	1333-86-4	Mold Compound	0.209	1.387	2,095		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	25.757	170.511	257,569			Total	100.00	<u> </u>
Iron	7439-89-6	Lead Frame	0.634	4.194	6,336	178.48	(mg) Total	Lead Frame	% of Total Weigh	26.96
Silver	7440-22-4	Lead Frame	0.514	3.400	5,136		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.034	0.223	337	1	Iron	7439-89-6	2.35	1
Phosphorous	7723-14-0	Lead Frame	0.022	0.147	222	1	Silver	7440-22-4	1.91	1
Silver	7440-22-4	Die Attach	0.326	2.155	3,256	i	Zinc	7440-66-6	0.13	
Epoxy resin	Trade Secret	Die Attach	0.088	0.583	880	1	Phosphorous	7723-14-0	0.08	1
Metal oxide	Trade Secret	Die Attach	0.013	0.087	132	1	· · · · · · · · · · · · · · · · · · ·	Total	100.00	<b>4</b>
Gamma-butyrolactone	96-48-0	Die Attach	0.013	0.087	132	2.91	(mg) Total	Die Attach	% of Total Weigh	
Silicon	7440-21-3	Chip (Die)	2.010	13.306	20.100	2.01	Silver	7440-22-4	74.00	0.77
Gold	7440-57-5	Wire Bond	0.090	0.596	900	ł	Epoxy resin	Trade Secret	20.00	1
Goid Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	0.670	4.435	6,700	ł	Metal oxide	Trade Secret	3.00	1
	7440-31-3	TOTALS:		662.000	1.000.000	ł	Gamma-butyrolactone	96-48-0	3.00	1
			100.000	002.000	1,000,000		Gamma-butyrolactorie	Total	100.00	1
	0.6620	g Total Mass						i otai	100.00	l .
) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption pliance with the above EU Directives has been verified via interr	. ,	ls, supplier declarations, and /or analytical test data.					Total (mg)  Doped Silicon	Chip (Die) 7440-21-3	% of Total Weigh	1
themical substance is absent from the list above, the chemical supported's knowledge and belief as of the date of this document, is not below the threshold of regulatory concern for any regulate.	there is no credi	ble reason to believe that the unavoidable impurity concer						Total	100.00	Ţ
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 ttp://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/						0.60	(mg) Total	Wire Bond	% of Total Weigh	0.09
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.							Doped Gold	7440-57-5	100.00	
ochip Technology Incorporated believes the information in this for original packing materials is true and correct to the best of its kepleteness and accuracy of data in this form because it has been mation is often protected from disclosure as trade secrets and solided only as estimates of the average weight of these parts and opants, metals, and non-metal materials contained within silicon	nowledge and be compiled based come information the 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 ht of anticipated significant toxic metals components. The	gy Incorporated vided by raw m and raw materi	d cannot guara naterial supplie al suppliers. Ir	entee the ers. Supplier oformation is			Total	100.00	
ilcrochip 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 uotations, sales order acknowledgement, and invoices.						4.44	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1	% of Total Weigh	0.67
crochip 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 herwise, 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 this Certificate of Compliance for semiconductor products.							Tin	7440-31-5	100.00	
embled package referenced above is EU REACH compliant based b://echa.europa.eu/web/guest/candidate-list-table	I on the latest SV	HC candidate list of ECHA which can be found at						Total	100.00	
						662.000				100.0

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