Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: B4X 005 SC-70 MatteTin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
		"Contained In"				3.34	(mg) Total	Mold Compound	% ot Total Weight	e3 53.04
Basic Substance	CAS Number	Sub-Component	% Total Weight	mg/part	ppm	0.04				
Silica, vitreous	60676-86-0	Mold Compound	45.084	2.840	450,840		Silica, vitreous	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	3.249	0.205	32,487		Epoxy Resin	Trade Secret	6.13	
Phenolic Resin	Trade Secret	Mold Compound	3.249	0.205	32,487		Phenolic Resin	Trade Secret	6.13	
Epoxy, Cresol Novolac	29690-82-2	Mold Compound	1.299	0.082	12,995		Epoxy, Cresol Novolac	29690-82-2	2.45	
Carbon Black	1333-86-4	Mold Compound	0.159	0.010	1,591		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	42.275	2.663	422,753			Total	100.00	
Iron	7439-89-6	Lead Frame	1.040	0.066	10,399	2.79	(mg) Total	Lead Frame	% of Total Weight	44.25
Silver	7440-22-4	Lead Frame	0.843	0.053	8,430		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.055	0.003	553		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.037	0.002	365		Silver	7440-22-4	1.91	
Silver (Ag)	7440-22-4	Die Attach	0.240	0.015	2,400		Zinc	7440-66-6	0.13	
Proprietary Resin	Trade Secret	Die Attach	0.060	0.004	600		Phosphorous	7723-14-0	0.08	
Silicon	7440-21-3	Chip (Die)	0.710	0.045	7,100			Total	100.00	
Gold	7440-57-5	Wire Bond	0.350	0.022	3,500	0.02	(mg) Total	Die Attach	% of Total Weight	0.3
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.350	0.085	13,500		Silver (Ag)	7440-22-4	80.00	
		TOTALS	100.000	6.300	1,000,000		Proprietary Resin	Trade Secret	20.00	
	0.0063	g Total Mass						Total	100.00	y .
nd 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero)					•	0.04	Total (mg)	Chip (Die)	% of Total Weight	0.71
ompliance with the above EU Directives has been verified via interia a chemical substance is absent from the list above, the chemical scorporated's knowledge and belief as of the date of this document lower threshold of regulatory concern for any regulatory scheme.	ubstance is NOT t, there is no cred	an intentional ingredient in the semiconductor device a				0.04	Doped Silicon	7440-21-3 Total	100.00	
a chemical substance is absent from the list above, the chemical s	substance is NOT t, there is no cred e world-wide. lity standard for	an intentional ingredient in the semiconductor device and dible reason to believe that the unavoidable impurity conditions.	entration of the che	mical substa		0.02	,	7440-21-3	100.00	
a chemical substance is absent from the list above, the chemical s corporated's knowledge and belief as of the date of this document slow the threshold of regulatory concern for any regulatory schem olding compounds used by Microchip meet the UL94 V0 flammabil	substance is NOT t, there is no cred e world-wide. lity standard for cs/	an intentional ingredient in the semiconductor device and dible reason to believe that the unavoidable impurity concuplastics. You can access the UL iQTM family of databases	entration of the che	mical substa	nce, if any, is not		Doped Silicon	7440-21-3 Total	100.00	
a chemical substance is absent from the list above, the chemical s corporated's knowledge and belief as of the date of this document ellow the threshold of regulatory concern for any regulatory schem- olding compounds used by Microchip meet the UL94 V0 flammabil tp://ul.com/global/eng/pages/offerings/industries/chemicals/plastic he protective "tubes" in which the specific product is shipped are in	substance is NOT to the to the total to th	an intentional ingredient in the semiconductor device at fible reason to believe that the unavoidable impurity control plastics. You can access the UL iQTM family of databases inyl chloride (PVC) plastic. "Window envelopes" used to substances restricted by RoHS in Microchip Technology as of the date listed in this form. Microchip Technology provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material st	entration of the che to obtain a test rep- hold the packing slip Incorporated's sem ncorporated cannot material suppliers. S ppliers. Information	mical substand ort at pon the oute siconductor duarantee the supplier infor is provided of the control of the c	r box and certain evices in their e completeness mation is often only as estimates		Doped Silicon (mg) Total	7440-21-3 Total Wire Bond 7440-57-5 Total	100.00 100.00 % of Total Weight	0.35
a chemical substance is absent from the list above, the chemical s corporated's knowledge and belief as of the date of this document flow the threshold of regulatory concern for any regulatory schem olding compounds used by Microchip meet the UL94 V0 flammabil tp://ul.com/global/eng/pages/offerings/industries/chemicals/plastic he protective "tubes" in which the specific product is shipped are eels" may be made from PVC plastic. icrochip Technology Incorporated believes the information in this riginal packing materials is true and correct to the best of its knowl daccuracy of data in this form because it has been compiled base rotected from disclosure as trade secrets and some information ms the average weight of these parts and the average weight of antici	substance is NO1 t, there is no cree e world-wide lity standard for st made from poly form concerning edge and belief, ad on the ranges ay not have been pated significan parts. express or impli	an intentional ingredient in the semiconductor device at itible reason to believe that the unavoidable impurity control plastics. You can access the UL iQTM family of databaser inyl chloride (PVC) plastic. "Window envelopes" used to substances restricted by RoHS in Microchip Technology as of the date listed in this form. Microchip Technology provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material set toxic metals components. These estimates do not inclued, with respect to the information provided in this declaed.	entration of the cheic to obtain a test republic to obtain a test repu	mical substander at the content of t	r box and certain evices in their e completeness mation is often only as estimates , and non-metal		Doped Silicon (mg) Total	7440-21-3 Total Wire Bond 7440-57-5 Total Plating on external leads (pins) - Matte Tin / annealed at 150°C for	100.00 100.00 % of Total Weight	0.35
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