Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP  Semiconductor Device Type: CTA 064 TQFP 10x10x1.0mm MatteTin			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	172.67	(mg) Total	Mold Compound	% ot Total Weigh	t 66.08
Silica Fused	60676-86-0	Mold Compound	58.329	152.413	583,288		Silica Fused	60676-86-0	88.27	1
Epoxy Resin	Trade Secret	Mold Compound	4.123	10.774	41,234		Epoxy Resin	Trade Secret	6.24	1
Phenol Resin	Trade Secret	Mold Compound	3.430	8.961	34,296		Phenol Resin	Trade Secret	5.19	1
Carbon Black	1333-86-4	Mold Compound	0.198	0.518	1,982		Carbon Black	1333-86-4	0.30	1
Copper	7440-50-8	Lead Frame	27.666	72.291	276,659			Total	100.00	ຶ້
Tin	7440-31-5	Lead Frame	0.071	0.186	710	74.21	(mg) Total	Lead Frame	% of Total Weigh	t 28.40
Silver	7440-22-4	Lead Frame	0.541	1.414	5,410		Copper	7440-50-8	97.42	1
Zinc	7440-66-6	Lead Frame	0.051	0.134	511		Tin	7440-31-5	0.25	1
Chromium	7440-47-3	Lead Frame	0.071	0.186	710		Silver	7440-22-4	1.91	1
Silver	7440-22-4	Die Attach	0.562	1.467	5.616		Zinc	7440-66-6	0.18	1
Epoxy Resin	Trade Secret	Die Attach	0.158	0.414	1.584		Chromium	7440-47-3	0.25	1
Silicon	7440-21-3	Chip (Die)	2.000	5.226	20,000			Total	100.00	<b>3</b>
Gold	7440-57-5	Wire Bond	0.800	2.090	8,000	1.88	(mg) Total	Die Attach	% of Total Weigh	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	2.000	5.226	20.000	1.00	Silver	7440-22-4	78.00	1 0.72
1111	7440 01 0	TOTALS:	100.000	261.300	1.000.000		Epoxy Resin	Trade Secret	22.00	-
	0.0040	q Total Mass	100.000	201.300	1,000,000		Lpoxy Resili	Total	100.00	_
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							Doped Silicon	7440-21-3 Total	100.00	)
below the threshold of regulatory concern for any regulatory scheme world-wide.  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/						2.09	(mg) Total	Wire Bond	% of Total Weigh	t 0.80
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	
Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their original packing materials is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Material Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these parts and the average weight of anticipated significant toxic metals components. These estimates do not include trace levels of dopants, metals, and non-metal materials contained within silicon devices (silicon IC) in the finished parts.							<u>u</u>	Total	100.00	)
Microchip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product warranties 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 quotations, sales order acknowledgement, and invoices.  Microchip 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 otherwise, 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 of this Certificate of Combilance for semiconductor products.						5.23	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour 7440-31-5	% of Total Weigh	t 2.00
Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at http://echa.europa.eu/web/guest/candidate-list-table								Total	100.00	) ¶

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