Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: PMA 44 VQFN 7x7x0.9mm MatteTin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
Semiconductor Device Type:	PINA	"Contained In"						1		e3
Basic Substance	CAS Number	Sub-Component	% Total Weight	mg/part	ppm	62.22	(mg) Total	Mold Compound	% ot Total Weight	48.76
Silica, vitreous (or fused)	60676-86-0	Mold Compound	41.446	52.885	414,460		Silica, vitreous (or fused)	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	4.242	5.413	42,421		Epoxy Resin	Trade Secret	8.70	
Phenolic Resin	Trade Secret	Mold Compound	2.926	3.733	29,256		Phenolic Resin	Trade Secret	6.00	
Carbon Black	1333-86-4	Mold Compound	0.146	0.187	1,463		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	44.963	57.373	449,628			Total	100.00	
Nickel	7440-02-0	Lead Frame	1.199	1.530	11,991	60.24	(mg) Total	Lead Frame	% of Total Weight	47.21
Silver	7440-22-4	Lead Frame	0.788	1.006	7,884		Copper	7440-50-8	95.24	
Silicon	7440-21-3	Lead Frame	0.212	0.271	2,124		Nickel	7440-02-0	2.54]
Magnesium	7439-95-4	Lead Frame	0.047	0.060	472		Silver	7440-22-4	1.67]
Silver	7440-22-4	Die Attach	0.400	0.510	3,996		Silicon	7440-21-3	0.45	
Epoxy resin	68475-94-5	Die Attach	0.124	0.158	1,242		Magnesium	7439-95-4	0.10	
Copper(II) oxide	1317-38-0	Die Attach	0.016	0.021	162			Total	100.00	•
Silicon	7440-21-3	Chip (Die)	0.790	1.008	7,900	0.69	(mg) Total	Die Attach	% of Total Weight	0.54
Gold	7440-57-5	Wire Bond	1.470	1.876	14,700		Silver	7440-22-4	74.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.230	1.569	12,300		Epoxy resin	68475-94-5	23.00	
		TOTALS:	100.000	127.600	1,000,000		Copper(II) oxide	1317-38-0	3.00	
	0.1276	g Total Mass			,,			Total	100.00	11
Compliance with the above EU Directives has been verified via intern f a chemical substance is absent from the list above, the chemical su ncorporated's knowledge and belief as of the date of this document,	ubstance is NOT , there is no cred	an intentional ingredient in the semiconductor device ar					Doped Silicon	7440-21-3 Total	100.00 100.00]
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/						1.88	(mg) Total	Wire Bond	% of Total Weight	1.47
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 to original packing materials is true and correct to the best of its knowl- and accuracy of data in this form because it has been compiled base protected from disclosure as trade secrets and some information ma of the average weight of these parts and the average weight of antici materials contained within silicon devices (silicon IC) in the finished	edge and belief, d on the ranges y not have been pated significan	as of the date listed in this form. Microchip Technology I provided in Material Safety Data Sheets provided by raw provided by subcontract assemblers and raw material su	ncorporated cannot material suppliers. S ppliers. Information	guarantee the Supplier infor is provided o	e completeness mation is often only as estimates			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,						1.57	(mg) Total	leads (pins) - Matte Tin / annealed at 150°C for	% of Total Weight	1.23
Microchip disclaims any duty to notify users of updates or changes to suffered by users or third parties as a result of the users' reliance on of Compliance for semiconductor products.							Tin	7440-31-5	100.00	
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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