Compliant with IEC 62474/ D9.00

MICROCHIP Semiconductor Device Type: *CNA 32 TQFP 07x07x1.2mm MatteTin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials			
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	110.91	(mg) Total	Mold Compound	% ot Total Weigh	e3 t 79.85
Silica, vitreous (or fused)	60676-86-0	Mold Compound	67.873	94.275	678,725		Silica, vitreous (or fused)	60676-86-0	85.00	1
Epoxy Resin	Trade Secret	Mold Compound	6.947	9.649	69,470		Epoxy Resin	Trade Secret	8.70	
Phenolic Resin	Trade Secret	Mold Compound	4.791	6.655	47,910		Phenolic Resin	Trade Secret	6.00	
Carbon Black	1333-86-4	Mold Compound	0.240	0.333	2,396		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	9.984	13.867	99,837			Total	100.00	<u> </u>
Iron	7439-89-6	Lead Frame	0.246	0.341	2,456	14.52	(mg) Total	Lead Frame	% of Total Weigh	t 10.45
Silver	7440-22-4	Lead Frame	0.199	0.277	1,991		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.013	0.018	131		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.009	0.012	86		Silver	7440-22-4	1.91	
Silver	7440-22-4	Die Attach	0.585	0.813	5,850		Zinc	7440-66-6	0.13	1
Epoxy Resin	Trade Secret	Die Attach	0.165	0.229	1,650		Phosphorous	7723-14-0	0.08	
Silicon	7440-21-3	Chip (Die)	7.500	10.418	75,000			Total	100.00	
Gold	7440-57-5	Wire Bond	0.198	0.275	1,980	1.04	(mg) Total	Die Attach	% of Total Weigh	t 0.75
Palladium	7440-05-3	Wire Bond	0.002	0.003	20		Silver	7440-22-4	78.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.250	1.736	12,500		Epoxy Resin	Trade Secret	22.00	_
TOTALS: 100.000 138.900 1,000,000								Total	100.00	<u> </u>
0.1389 g Total Mass						10.42	Total (mg)	Chip (Die)	% of Total Weight	t 7.50
his semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero) compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data. 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						Doped Silicon				
corporated'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 ny, is not below the threshold of regulatory concern for any regulatory scheme world-wide.						0.28	(mg) Total	Wire Bond	% of Total Weigh	t 0.20
Iolding 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/							Gold	7440-57-5	99.00	
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.							Palladium	7440-05-3	1.00	
Alicrochip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in heir 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								Total	100.00	-
ompleteness and accuracy of data in this form because it has been formation is often protected from disclosure as trade secrets and s rovided only as estimates of the average weight of these parts and i f dopants, metals, and non-metal materials contained within silicon	ome informatior he average weig	n may not have been provided by subcontract assemblers a ght of anticipated significant toxic metals components. Thes	nd raw materi	al suppliers. I	nformation is					
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							Tin	7440-31-5	100.00	
ssembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at ttp://echa.europa.eu/web/guest/candidate-list-table								Total	100.00)
					-	138.90	0			100.0

AuPd 14:07 : 06/28/16