Compliant with IEC 62474/ D9.00

MICROCHIP				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
Semiconductor Device Type:								e4		
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	1.15	(mg) Total	Mold Compound	% ot Total Weight	t 47.89
Silica, fused	60676-86-0	Mold Compound	43.101	1.034	431,010		Silica, fused	60676-86-0	90.00	
Epoxy Resin	Trade Secret	Mold Compound	2.323	0.056	23,227		Epoxy Resin	Trade Secret	4.85	
Phenolic Resin	Trade Secret	Mold Compound	2.323	0.056	23,227		Phenolic Resin	Trade Secret	4.85	
Carbon Black	1333-86-4	Mold Compound	0.144	0.003	1,437		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	39.377	0.945	393,773		, E	Total	100.00	ч
Iron	7439-89-6	Lead Frame	0.931	0.022	9,308	0.97	(mg) Total	Lead Frame	% of Total Weight	40.47
Phosphorous	7723-14-0	Lead Frame	0.101	0.002	1.012		Copper	7440-50-8	97.30	
Zinc (Metal)	7440-66-6	Lead Frame	0.061	0.001	607		Iron	7439-89-6	2.30	
Copper	7440-50-8	Chip on frame	0.632	0.015	6.322		Phosphorous	7723-14-0	0.25	
Tin	7440-31-5	Chip on frame	0.122	0.003	1,222		Zinc (Metal)	7440-66-6	0.15	
Polymide	Trade Secret	Chip on frame	0.110	0.003	1,101			Total	100.00	Ц
Nickel	7440-02-0	Chip on frame	0.025	0.001	250	0.02	(mg) Total	Chip on Frame	% of Total Weight	0.89
Titanium	7440-32-6	Chip on frame	0.001	0.000	5	0.02	Copper	7440-50-8	71.03	1 0.00
Silicon	7440-21-3	Chip (Die)	10.000	0.240	100.000		Tin	7440-31-5	13.73	
Nickel	7440-02-0	Plating on external leads (pins)	0.675	0.016	6.750		Polymide	Trade Secret	12.37	
Palladium	7440-05-3	Plating on external leads (pins)	0.038	0.001	375		Nickel	7440-02-0	2.81	
Gold	7440-57-5	Plating on external leads (pins)	0.038	0.001	375		Titanium	7440-32-6	0.06	
		TOTALS:	100.000	2.400	1.000.000			Total	100.00	U
	0.0024 a	Total Mass			.,,	0.24	Total (mg)	Chip (Die)	% of Total Weight	10.00
semiconductor device and its homogenous ma	terials comply with	EU Directives: 2002/95/EC (27 January 2003) 8	L Directive 201	1/65/EU (08 Ju	ine 2011)	0.2.	Doped Silicon	7440-21-3	100.00	10.00
2015/863/EU (31 March 2015) and 2002/53/EC (E							Doped Gilloon	Total	100.00	
npliance with the above EU Directives has been		,	•					T T	100.00	
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 icrochip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity incentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.						0.02	(mg) Total	Plating on external leads (pins)	% of Total Weight	0.75
olding 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 port at http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/							Nickel	7440-02-0	90.00	
he protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing lip on the outer box and certain "reels" may be made from PVC plastic. icrochip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's							Palladium	7440-05-3	5.00	
conductor devices in their original packing mat		•	•	•						
chnology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in										
terial Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information							Gold	7440-57-5	5.00	
y not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these										
		nponents. These estimates do not include trace								
rials contained within silicon devices (silicon IC				, motars, ar						
crochip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The clusive, limited product warranties provided by Microchip Technology Incorporated and its subsidiaries are contained in Microchip's standard terms and								Total	100.00	ч
litions of sale. These are provided in Microchip' ochip disclaims any duty to notify users of upda			iable for any da	mages, direct	or indirect,					
		It of the users' reliance on the information in M								
		diance for comiconductor products			, .	2.40				10

independent third party test reports (SGS) or of this Certificate of Compliance for semiconductor products.

http://echa.europa.eu/web/guest/candidate-list-table

Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at

2.40 100.00

Au 14:59 : 04/18/16