Compliant with IEC 62474/ D9.00

MICROCHIP Semiconductor Device Type: QAE (U3X) 008 TDFN-S 6x5x0.8mm Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
	- J	"Contained In"	% Total			38.82				52.6
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	38.82	(mg) Total	Mold Compound	% ot Total Weight	52.6
Silica, fused	60676-86-0	Mold Compound	47.340	34.937	473,400		Silica, fused	60676-86-0	90.00	
Epoxy Resin (NLP # 500-033-5)	Trade Secret	Mold Compound	2.551	1.883	25,511	Epoxy	/ Resin (NLP # 500-033-5)	Trade Secret	4.85	
Phenolic Resin	Trade Secret	Mold Compound	2.551	1.883	25,511		Phenolic Resin	Trade Secret	4.85	
Carbon Black	1333-86-4 7440-50-8	Mold Compound	0.158 38.215	0.116	1,578 382,150		Carbon Black	1333-86-4 Total	0.30	1
Copper	7440-50-8	Lead Frame Lead Frame	0.940	28.203 0.694	9,400					
Iron Silver	7439-89-6 7440-22-4	Lead Frame Lead Frame	0.940	0.694	7,620	29.52	(mg) Total	Lead Frame 7440-50-8	% of Total Weight 95.54	<u>t</u> 40
Zinc	7440-22-4 7440-66-6	Lead Frame Lead Frame	0.762	0.562	7,620 500		Copper	7440-50-8 7439-89-6		ŀ
Phosphorous	7723-14-0	Lead Frame	0.033	0.037	330		Iron Silver	7439-89-6 7440-22-4	2.35	
Silver (Ag)	7440-22-4	Die Attach	0.704	0.520	7.040		Zinc	7440-66-6	0.13	1
Epoxy Resin	Trade Secret	Die Attach	0.150	0.110	1,496		Phosphorous	7723-14-0	0.08	1
Copper (Cu)	7440-50-8	Die Attach	0.026	0.019	264		Поэрногоиз	Total		1
Silicon	7440-21-3	Chip (Die)	5.140	3.793	51,400	0.65	(mg) Total	Die Attach	% of Total Weight	
Gold	7440-57-5	Wire Bond	0.270	0.199	2.700	0.00	Silver (Aa)	7440-22-4	80.00	1 0.00
Tin		Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.110	0.819	11,100		Epoxy Resin	Trade Secret	17.00	1
	71.00.0	TOTALS:	100.000	73.800	1.000.000		Copper (Cu)	7440-50-8	3.00	1
	0.0700	q Total Mass			.,,		обррог (ой)	Total		4
showing authorous is absent from the list above the	hamiaal aubatanaa ia NOT	ls, supplier declarations, and /or analytical test data.	heat of Missa	ahin Taabuala			Doped Silicon	7440-21-3 Total	100.00 100.00	<u> </u>
orporated's knowledge and belief as of the date of this obelow the threshold of regulatory concern for any regu	document, there is no credi ulatory scheme world-wide.	an intentional ingredient in the semiconductor device and, to the ble reason to believe that the unavoidable impurity concentratio	n of the chemi	cal substance			Doped Silicon			<u>]</u>
orporated's knowledge and belief as of the date of this obelow the threshold of regulatory concern for any regu	document, there is no credi ulatory scheme world-wide. flammability standard for p	an intentional ingredient in the semiconductor device and, to the	n of the chemi	cal substance		0.20	Opped Silicon			
orporated's knowledge and belief as of the date of this of below the threshold of regulatory concern for any regu ding compounds used by Microchip meet the UL94 V0 :://ul.com/global/eng/pages/offerings/industries/chemic	document, there is no credi alatory scheme world-wide. flammability standard for p cals/plastics/	an intentional ingredient in the semiconductor device and, to the ble reason to believe that the unavoidable impurity concentratio	n of the chemi in a test report	cal substance	, if any, is	0.20	· ·	Total Wire Bond 7440-57-5	100.00 % of Total Weight	
proprated's knowledge and belief as of the date of this obelow the threshold of regulatory concern for any requiring compounds used by Microchip meet the ULL94 VD: "//ul.com/global/eng/pages/offerings/industries/chemic protective "tubes" in which the specific product is ship ain "reels" may be made from PVC plastic. Trochip Technology Incorporated believes the informative protective may be made from every the informative protection of the	document, there is no credi ulatory scheme world-wide. flammability standard for p als/plastics/ pped are made from polyving on in this form concerning of fits knowledge and belief, a piled based on the ranges p mation may not have been rage weight of anticipated s	an intentional ingredient in the semiconductor device and, to the ble reason to believe that the unavoidable impurity concentratio lastics. You can access the UL iQTM family of databases to obta	n of the chemi in a test report packing slip c rated's semice ted cannot gu suppliers. Su Information is	t at on the outer bo onductor devi- larantee the co opplier informa s provided onl	ox and ces in their completeness tion is often y as	0.20	(mg) Total	Total Wire Bond	100.00 % of Total Weight	
proprated's knowledge and belief as of the date of this obelow the threshold of regulatory concern for any regulding compounds used by Microchip meet the UL94 V0: chi/ul.com/global/eng/pages/offerings/industries/chemic protective "tubes" in which the specific product is shipain "reels" may be made from PVC plastic. Prochip Technology Incorporated believes the information packing materials is true and correct to the best of accuracy of data in this form because it has been come tected from disclosure as trade secrets and some informates of the average weight of these parts and the average metal materials contained within silicon devices (silico rochip Technology Incorporated does not provide any provide a	document, there is no credi ulatory scheme world-wide. flammability standard for p als/plastics/ pped are made from polyving on in this form concerning of fits knowledge and belief, a piled based on the ranges p mation may not have been ig rage weight of anticipated son IC) in the finished parts. warranty, express or implie	an intentional ingredient in the semiconductor device and, to the ble reason to believe that the unavoidable impurity concentratio lastics. You can access the UL iQTM family of databases to obtainly chloride (PVC) plastic. "Window envelopes" used to hold the substances restricted by RoHS in Microchip Technology Incorpors of the date listed in this form. Microchip Technology Incorporatorovided in Material Safety Data Sheets provided by raw material suppliers.	n of the chemi in a test report packing slip o prated's semicated cannot gu suppliers. Sul Information is lude trace leve	cal substance t at on the outer be onductor devi uarantee the co pplier informa s provided onl els of dopants, imited productions	ox and ces in their mpleteness tion is often y as metals, and	0.20	(mg) Total Doped Gold (mg) Total	Total Wire Bond 7440-57-5	100.00 % of Total Weight	0.27
proprated's knowledge and belief as of the date of this obelow the threshold of regulatory concern for any regulating compounds used by Microchip meet the UL94 Viot/Lul.com/global/eng/pages/offerings/industries/chevic/protective "tubes" in which the specific product is shipain "reels" may be made from PVC plastic. Trochip Technology Incorporated believes the information in the product of accuracy of data in this form because it has been completed from disclosure as trade secrets and some informates of the average weight of these parts and the average meeting in the prochip Technology Incorporated does not provide any receipt meeting in the product of the provide and the superior of the provided by Microchip Technology Incorporated and its super acknowledgement, and invoices.	document, there is no credi ulatory scheme world-wide. flammability standard for p als/plastics/ pped are made from polyving on in this form concerning it it is knowledge and belief, a piled based on the ranges p mation may not have been prage weight of anticipated son IC) in the finished parts. warranty, express or implieubsidiaries are contained in changes to Material Conter	an intentional ingredient in the semiconductor device and, to the ble reason to believe that the unavoidable impurity concentration lastics. You can access the UL iQTM family of databases to obtainly chloride (PVC) plastic. "Window envelopes" used to hold the substances restricted by RoHS in Microchip Technology Incorpors of the date listed in this form. Microchip Technology Incorporational distribution of the date listed in this form. Microchip Technology Incorporational Safety Data Sheets provided by raw material provided by subcontract assemblers and raw material suppliers. Significant toxic metals components. These estimates do not incorporation with the provided in this declaration. Tile, with respect to the information provided in this declaration. Tile.	n of the chemi in a test report packing slip of rated's semicated cannot gu suppliers. Suj Information is lude trace leve the exclusive, li ovided in Micr indirect, cons	cal substance t at on the outer bo onductor devi- uarantee the co pplier informa is provided onl els of dopants, imited produc- ochip's quota	ox and ces in their ompleteness tion is often y as metals, and t warranties tions, sales therwise,		(mg) Total Doped Gold (mg) Total	Wire Bond 7440-57-5 Total Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1	100.00 % of Total Weight 100.00	0.27

Au 3:29 PM : 8/17/2015