Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

ICROCHIP  Semiconductor Device	Type: MI	(T3X) 044 QFN 8x8x0.9mm Matte Tin	Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)				JEDEC 97 Product Marking and/or Pkg. Labeling e3
Semiconductor Device	Type. IVIL	` ,								es
		"Contained In"	% Total			75.12	(mg) Total	Mold Compound	% ot Total Weight	39.87
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	70.12	, ,	•		
Silica, fused	60676-86-0	Mold Compound	35.883	67.604	358,830		Silica, fused	60676-86-0	90.00	
Epoxy Resin (NLP # 500-033-5)	Trade Secret	Mold Compound	1.934	3.643	19,337	Epoxy	Resin (NLP # 500-033-5)	Trade Secret	4.85	
Phenolic Resin	Trade Secret	Mold Compound	1.934	3.643	19,337		Phenolic Resin	Trade Secret	4.85	
Carbon Black	1333-86-4	Mold Compound	0.120	0.225	1,196		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	47.903	90.248	479,025			Total		
Iron	7439-89-6	Lead Frame	1.178	2.220	11,783	94.46	(mg) Total	Lead Frame	% of Total Weight	50.14
Silver	7440-22-4	Lead Frame	0.955	1.800	9,552		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.063	0.118	627		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.041	0.078	414		Silver	7440-22-4	1.91	
Silver	7440-22-4	Die Attach	1.186	2.234	11,856		Zinc	7440-66-6	0.13	1
Acrylate resins Proprietary	Trade Secret	Die Attach	0.274	0.515	2,736		Phosphorous	7723-14-0	0.08	1
Treated silica	Trade Secret	Die Attach	0.030	0.057	304	'		Total	100.00	
Heterocyclic organic compound	Trade Secret	Die Attach	0.030	0.057	304	2.86	(mg) Total	Die Attach	% of Total Weight	1.52
Silicon	7440-21-3	Chip (Die)	4.280	8.064	42.800		Silver	7440-22-4	78.00	1
Gold	7440-57-5	Wire Bond	0.480	0.904	4,800		Acrylate resins Proprietary	Trade Secret	18.00	1
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	3.710	6.990	37,100	i	Treated silica	Trade Secret	2.00	1
****		TOTALS:	100.000	188.400	1.000.000	Heter	ocyclic organic compound		2.00	
	0.4004				.,000,000	110101	coyone organic compound	Total		1
emiconductor device and its homogenous materials c	omply with EU Directives	g Total Mass s: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011	) and 2015/863	/EU (31 March	2015) and	8.06	Total (mg)	Chip (Die)	% of Total Weight	
3/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified emical substance is absent from the list above, the ch	omply with EU Directives zero) via internal design contro emical substance is NOT ocument, there is no crec	s: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011	t of Microchip	Technology	,	8.06	Total (mg)  Doped Silicon		% of Total Weight	4.28
3/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified emical substance is absent from the list above, the ch orated's knowledge and belief as of the date of this do the threshold of regulatory concern for any regulatory	omply with EU Directives tero) via internal design contro emical substance is NOT ocument, there is no crec y scheme world-wide. ammability standard for p	2: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011 ols, supplier declarations, and /or analytical test data.	t of Microchip the chemical s	Technology	,	0.90	, ,	Chip (Die) 7440-21-3	% of Total Weight	4.28
i3/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified emical substance is absent from the list above, the chorated's knowledge and belief as of the date of this do the threshold of regulatory concern for any regulatory or compounds used by Microchip meet the UL94 Vo flul.com/global/eng/pages/offerings/industries/chemica	omply with EU Directives tero) via internal design contro emical substance is NOT ocument, there is no creo y scheme world-wide. ammability standard for partics/	2: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011 ols, supplier declarations, and /or analytical test data.  Tan intentional ingredient in the semiconductor device and, to the besidible reason to believe that the unavoidable impurity concentration of the	t of Microchip the chemical si	Technology ubstance, if ar	ny, is not		Doped Silicon	Chip (Die) 7440-21-3 Total Wire Bond 7440-57-5	% of Total Weight 100.00 100.00 % of Total Weight 100.00	4.28
i3/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified emical substance is absent from the list above, the chorated's knowledge and belief as of the date of this di the threshold of regulatory concern for any regulatory or compounds used by Microchip meet the UL94 V0 flui.com/global/eng/pages/offerings/industries/chemica rotective "tubes" in which the specific product is ship may be made from PVC plastic. chip Technology Incorporated believes the information al packing materials is true and correct to the best of i acty of data in this form because it has been compiled lisclosure as trade secrets and some information may	omply with EU Directives tero) via internal design control emical substance is NOT occument, there is no crecy scheme world-wide. ammability standard for is/plastics/ ped are made from polyv in in this form concerning ts knowledge and belief, based on the ranges pro not have been provided icipated significant toxic	s: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011 obs, supplier declarations, and /or analytical test data.  'an intentional ingredient in the semiconductor device and, to the best dible reason to believe that the unavoidable impurity concentration of the plastics. You can access the UL iQTM family of databases to obtain a temporary of the plastics.	t of Microchip the chemical si est report at king slip on the d's semicondu- cannot guaran s. Supplier info provided only	Technology ubstance, if ar e outer box an ctor devices in tee the complomation is oft as estimates contacts.	d certain  their eteness and een protected of the		Doped Silicon  (mg) Total	Chip (Die) 7440-21-3 Total Wire Bond	% of Total Weight 100.00 100.00 % of Total Weight 100.00	. 4.28
is/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified of emical substance is absent from the list above, the chorated's knowledge and belief as of the date of this do the threshold of regulatory concern for any regulatory ng compounds used by Microchip meet the UL94 V0 flul.com/global/eng/pages/offerings/industries/chemica rotective "tubes" in which the specific product is ship. " may be made from PVC plastic. chip Technology Incorporated believes the information al packing materials is true and correct to the best of in a packing materials is true and correct to the best of in lisclosure as trade secrets and some information may ge weight of these parts and the average weight of ant and within silicon devices (silicon IC) in the finished pushing Technology Incorporated does not provide any we	omply with EU Directives tero) via internal design control via internal design control via internal design control via internal design correctly scheme world-wide. ammability standard for pls/plastics/ ped are made from polyv in in this form concerning ts knowledge and belief, based on the ranges provot have been provided icipated significant toxic parts.  arranty, express or implication toxic parts.	s: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011 obs, supplier declarations, and /or analytical test data.  Tan intentional ingredient in the semiconductor device and, to the best dible reason to believe that the unavoidable impurity concentration of the plastics. You can access the UL iQTM family of databases to obtain a triple chloride (PVC) plastic. "Window envelopes" used to hold the package substances restricted by RoHS in Microchip Technology Incorporated as of the date listed in this form. Microchip Technology Incorporated wided in Material Safety Data Sheets provided by raw material suppliers. Information is just subcontract assemblers and raw material suppliers. Information is	t of Microchip the chemical si est report at king slip on the d's semicondu cannot guaran s. Supplier info provided only opants, metals, colusive, limiter	Technology ubstance, if ar e outer box an ctor devices it tee the complormation is oft as estimates of and non-metal d product war	d certain  n their eteness and en protected of the al materials		Doped Silicon  (mg) Total	Chip (Die) 7440-21-3 Total Wire Bond 7440-57-5	% of Total Weight 100.00 100.00 % of Total Weight 100.00	0.48
is/EC (End-of-Life Vehicles (ELV) without exemption (a liance with the above EU Directives has been verified of emical substance is absent from the list above, the ch protated's knowledge and belief as of the date of this did the threshold of regulatory concern for any regulatory group compounds used by Microchip meet the UL94 V0 fl ul.com/global/eng/pages/offerings/industries/chemica rotective "tubes" in which the specific product is ship "may be made from PVC plastic. chip Technology Incorporated believes the information al packing materials is true and correct to the best of i acy of data in this form because it has been compiled it lisclosure as trade secrets and some information may be weight of these parts and the average weight of ant ned within silicon devices (silicon IC) in the finished public of thip Technology Incorporated does not provide any was led by Microchip Technology Incorporated and its sub wiedgement, and invoices. chip disclaims any duty to notify users of updates or compared to the chip disclaims any duty to notify users of updates or compared to the chip disclaims any duty to notify users of updates or compared to the content of the compared to the compared to the content of the compared to the content of the content of the content of	omply with EU Directives tero) via internal design control emical substance is NOT occument, there is no crecy scheme world-wide. ammability standard for Is/plastics/ ped are made from polyv in in this form concerning ts knowledge and belief, based on the ranges pro not have been provided icipated significant toxic parts. arranty, express or impliesidiaries are contained in thanges to Material Conternal control in the cont	2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011 pls, supplier declarations, and /or analytical test data.  an intentional ingredient in the semiconductor device and, to the best lible reason to believe that the unavoidable impurity concentration of the plastics. You can access the UL iQTM family of databases to obtain a triple chloride (PVC) plastic. "Window envelopes" used to hold the pack is substances restricted by RoHS in Microchip Technology Incorporated as of the date listed in this form. Microchip Technology Incorporated wided in Material Safety Data Sheets provided by raw material suppliers by subcontract assemblers and raw material suppliers. Information is metals components. These estimates do not include trace levels of doed, with respect to the information provided in this declaration. The execution is the contract of the data information provided in this declaration. The execution is the contract of the data is the contract of the data.	t of Microchip the chemical suest report at sing slip on the d's semiconducannot guaran s. Supplier inforprovided only ypants, metals, acclusive, limited in Microchiprect, conseque	Technology ubstance, if an e outer box an ctor devices in tee the complormation is oft as estimates c and non-metal d product war p's quotations ential or otherw	d certain  In their eteness and en protected of the al materials ranties s, sales order wise,	0.90	Doped Silicon  (mg) Total  Doped Gold	Chip (Die) 7440-21-3 Total Wire Bond 7440-57-5 Total  Plating on external leads (pins) - Matte Tin / annealed at 150°C for	% of Total Weight 100.00 100.00 % of Total Weight 100.00 100.00	0.48

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