Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP  Semiconductor Device Type: Q3X 08 USON 2x3x0.6 Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	8.44	(mg) Total	Mold Compound	% ot Total Weigh	t 49.95
Silica, fused	60676-86-0	Mold Compound	44.955	7.597	449.550		Silica, fused	60676-86-0	90.00	1
Epoxy Resin	Trade Secret	Mold Compound	2.423	0.409	24,226		Epoxy Resin	Trade Secret	4.85	1
Phenolic Resin	Trade Secret	Mold Compound	2.423	0.409	24,226		Phenolic Resin	Trade Secret	4.85	1
Carbon Black	1333-86-4	Mold Compound	0.150	0.025	1,499		Carbon Black	1333-86-4	0.30	1
Copper	7440-50-8	Lead Frame	41.087	6.944	410,870		<u>u</u>	Total	100.00	วี"
Nickel	7440-02-0	Lead Frame	1.096	0.185	10,958	7.29	(mg) Total	Lead Frame	% of Total Weigh	nt 43.14
Silicon	7440-21-3	Lead Frame	0.194	0.033	1,941		Copper	7440-50-8	95.24	1
Magnesium	7439-95-4	Lead Frame	0.043	0.007	431		Nickel	7440-02-0	2.54	1
Silver	7440-22-4	Lead Frame	0.720	0.122	7.200		Silicon	7440-21-3	0.45	1
Acrylic Copolymer	Trade Secret	Die Attach	1.050	0.177	10.500		Magnesium	7439-95-4	0.10	1
Epoxy Resin	Trade Secret	Die Attach	0.180	0.030	1,800		Silver	7440-22-4	1.67	1
Phenol Resin	Trade Secret	Die Attach	0.180	0.030	1,800			Total	100.00	۵
SiO2 Filler	Trade Secret	Die Attach	0.090	0.015	900	0.25	(mg) Total	Die Attach	% of Total Weigh	t 1.5
Silicon	7440-21-3	Chip (Die)	2,710	0.458	27.100	0.20	Acrylic Copolymer	Trade Secret	70.00	<del></del>
Gold	7440-57-5	Wire Bond	0.250	0.042	2.500		Epoxy Resin	Trade Secret	12.00	1
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	2.450	0.414	24.500		Phenol Resin	Trade Secret	12.00	1
	7 110 01 0	TOTALS:	100.000	16.900	1,000,000		SiO2 Filler	Trade Secret	6.00	1
	0.0400	g Total Mass	100.000	10.500	1,000,000		0.02 1.1101	Total		_
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.  If 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  Incorporated'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 any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.						0.46	Total (mg)   Chip (Die)   % of Total Weight 2.71     Doped Silicon   7440-21-3   100.00     Total   100.00			
below the threshold or regulatory concern for any regulatory scheme word-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/qlobal/eng/pages/offerings/industries/chemicals/plastics/						0.04	(mg) Total	Wire Bond	% of Total Weigh	nt 0.25
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 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 may 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, ed on the ranges ay 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. ppliers. Informatior	guarantee the Supplier inforr is provided o	completeness nation is often nly as estimates			Total	100.00	<u>,</u>
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.						0.41	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weigh	at 2.45
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, suffered by users or third parties as a result of the users' reliance on the information in Material Content Declarations (MCD) or independent third party test reports (SGS) or of this Certificate of Compliance for semiconductor products.							Tin	7440-31-5	100.00	
Assembled package referenced above is EU REACH compliant bases http://echa.europa.eu/web/guest/candidate-list-table	d on the latest S	VHC candidate list of ECHA which can be found at						Total	100.00	,

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