Compliant with IEC 62474/ D9.00

Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: MG / NG (P9X) 016 QFN 3x3x0.9mm Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials			
		"Contained In"	% Total			13.79	(mg) Total	Mold Compound	% ot Total Weight	e3 63.82
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm		, ,,	,	_	00.02
Silica, fused	60676-86-0	Mold Compound	57.438	12.407	574,380		Silica, fused	60676-86-0	90.00	
Epoxy Resin	Trade Secret	Mold Compound	3.095	0.669	30,953		Epoxy Resin	Trade Secret	4.85	
Phenolic Resin Carbon Black	Trade Secret 1333-86-4	Mold Compound Mold Compound	3.095 0.191	0.669 0.041	30,953 1,915		Phenolic Resin	Trade Secret 1333-86-4	4.85 0.30	
	7440-50-8	Lead Frame	22,289	4.814	222,889		Carbon Black	1333-86-4 Total		1
Copper										
Iron	7439-89-6	Lead Frame	0.548	0.118	5,483	5.04	(mg) Total	Lead Frame	% of Total Weight	23.33
Silver	7440-22-4	Lead Frame	0.444	0.096	4,444		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.029	0.006	292		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0 7440-22-4	Lead Frame	0.019	0.004	192		Silver	7440-22-4	1.91	4
Silver		Die Attach Die Attach	0.273	0.059	2,730 630		Zinc Phosphorous	7440-66-6 7723-14-0	0.13 0.08	4
Acrylate resins Proprietary	Trade Secret		0.063	0.014	70		Phosphorous			1
Treated silica	Trade Secret	Die Attach						Total		
Heterocyclic organic compound	Trade Secret	Die Attach	0.007	0.002	70	0.08	(mg) Total	Die Attach	% of Total Weight	0.35
Silicon	7440-21-3	Chip (Die)	5.350	1.156	53,500		Silver	7440-22-4	78.00	
Copper	7440-50-8	Wire Bond Copper Palladium coated (CuPd)	1.808	0.390	18,078		Acrylate resins Proprietary	Trade Secret	18.00	
Palladium	7440-05-3	Wire Bond Copper Palladium coated (CuPd)	0.032	0.007	322		Treated silica	Trade Secret	2.00	4
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	5.310 100.000	1.147 21.600	53,100 1,000,000	Hete	erocyclic organic compound		2.00	1
TOTALS: 100.000 21.600 1,000,000 0.0216 a Total Mass						1.16	Total (mg)	Total Chip (Die)	100.00 % of Total Weight	
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.						Doped Silicon	7440-21-3 Total	100.00		
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.					0.40	(mg) Total	Wire Bond Copper Palladium coated (CuPd)	% of Total Weight	1.84	
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/global/eng/pages/offerings/industries/chemicals/plastics/						Copper	7440-50-8	98.25		
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.					nd certain		Palladium	7440-05-3	1.75	
original packing materials is true and correct to the best of its kr and accuracy of data in this form because it has been compiled protected from disclosure as trade secrets and some information	nowledge and belief, pased on the ranges n may not have been cipated significant to	substances restricted by RoHS in Microchip Technology Incorporate as of the date listed in this form. Microchip Technology Incorporated provided in Material Safety Data Sheets provided by raw material supprovided by subcontract assemblers and raw material suppliers. Infoxic metals components. These estimates do not include trace levels of	cannot guara ppliers. Suppli programation is pro	ntee the comp er information ovided only as	leteness is often estimates of			Total	100.00	5
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.					1.15	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weight	5.31	
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 b http://echa.europa.eu/web/guest/candidate-list-table	ased on the latest S	/HC candidate list of ECHA which can be found at						Total	100.00	100.00

CuPd 2:20 PM : 8/17/2015

100.000

21.600