MICROCHIP Semiconductor Device Type: UKX 016 QFN 5x5x0.9mm Matte Tin				Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials			
Basic Substance	CAS Number	"Contained In" Sub-Component	% I otal Weight	malaart	ppm	20.13	(mg) Total	Mold Compound	% ot Total Weight	37.00
Silica, vitreous (or fused)	60676-86-0	Mold Compound	31.450	mg/part 17.109	314,500		Silica, vitreous (or fused)	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	3.219	1.751	314,500		Epoxy Resin	Trade Secret	85.00	
Phenolic Resin	Trade Secret	Mold Compound	2.220	1.208	22,200		Phenolic Resin	Trade Secret	6.00	
Carbon Black	1333-86-4	Mold Compound	0.111	0.060	1,110		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	51.922	28.246	519.222		Carbon Black	Total	100.00	
Silver	7440-30-8	Lead Frame	1.015	0.552	10,154	29.00		Lead Frame	% of Total Weight	
	7440-22-4 7440-31-5	Lead Frame				29.00	(mg) Total			53.30
Tin			0.133	0.072	1,333		Copper	7440-50-8	97.42	
Chromium	7440-47-3	Lead Frame	0.133	0.072	1,333		Silver	7440-22-4	1.91	
Zinc	7440-66-6	Lead Frame	0.096	0.052	959		Tin	7440-31-5	0.25	
Silver	7440-22-4	Die Attach	3.183	1.732	31,834	4	Chromium	7440-47-3	0.25	4
(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	Die Attach	0.219	0.119	2,189	4	Zinc	7440-66-6	0.18	1
Methacrylic acid, isobornyl ester	7534-94-3	Die Attach	0.219	0.119	2,189			Total	100.00	
Exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	Die Attach	0.219	0.119	2,189	2.09	(mg) Total	Die Attach	% of Total Weight	3.84
0.00	0	Die Attach	0.000	0.000	0		Silver	7440-22-4	82.90	
0.00	0	Die Attach	0.000	0.000	0		nethano-1H-indenediyl)bis(m	42594-17-2	5.70	
Silicon	7440-21-3	Dual Chip (Die)	2.410	1.311	24,100		Methacrylic acid, isobornyl es	7534-94-3	5.70	
Copper	7440-50-8	Wire Bond Copper palladium coated (CuPdAu)	0.685	0.373	6,853	Exo-1,7,7	Trimethylbicyclo[2.2.1]hept-	5888-33-5	5.70	
Palladium	7440-05-3	Wire Bond Copper palladium coated (CuPdAu)	0.014	0.008	140			Total	100.00	
Gold	7440-57-5	Wire Bond Copper palladium coated (CuPdAu)	0.001	0.000	7	1.31	Total (mg)	Dual Chip (Die)	% of Total Weight	2.41
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	2.750	1.496	27,500		Doped Silicon	7440-21-3	100.00	1
		TOTALS:	100.000	54.400	1,000,000		· · · · ·	Total	100.00	
0.0544 g Total Mass						0.38	(mg) Total	Wire Bond Copper palladium coated (CuPdAu)	% of Total Weight	0.70
is semiconductor device and its homogenous materials comply w 15) and 2000/53/EC and 2016/774/EU (End-of-Life Vehicles (ELV) w			8 June 2011) ar	nd 2015/863/EL	J (31 March		Copper	7440-50-8	97.90	
compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.							Palladium	7440-05-3	2.00	
f 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 ncorporated'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.							Gold	7440-57-5	0.10	
Alolding 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/								Total	100.00	
he protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and ertain "reels" may be made from PVC plastic.						1.50	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weight	2.75
Alicrochip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in heir original packing materials is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Material Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of anticipated significant toxic metals components. These estimates do not include trace levels of dopants, metals, and non-metal materials contained within silicon devices (silicon IC) in the finished parts.							Tin	7440-31-5	100.00	
icrochip Technology Incorporated does not provide any warranty, arranties provided by Microchip Technology Incorporated and its s uotations, sales order acknowledgement, and invoices.	ubsidiaries are o		sale. These are	provided in N	licrochip's		L	Total	100.00	1

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.

Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at http://echa.europa.eu/web/guest/candidate-list-table

54.400

100.000