Compliant with IEC 62474/ D9.00

MICROCHIP			Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials				JEDEC 97 Product Marking and/or Pkg. Labeling
Semiconductor Device Type:	SO & OI	(N3X) 028 SOIC .300in Matte Tin								e3
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	614.78	(mg) Total	Mold Compound	% ot Total Weight	79.8
Silica, vitreous	60676-86-0	Mold Compound	67.830	522.562	678,300		Silica, vitreous	60676-86-0	85.00	
Epoxy Resin	Trade Secret	Mold Compound	4.888	37.655	48,878		Epoxy Resin	Trade Secret	6.13	
Phenolic Resin	Trade Secret	Mold Compound	4.888	37.655	48,878		Phenolic Resin	Trade Secret	6.13	
Epoxy, Cresol Novolac	29690-82-2	Mold Compound	1.955	15.062	19,551		Epoxy, Cresol Novolac	29690-82-2	2.45	
Carbon Black	1333-86-4	Mold Compound	0.239	1.844	2,394		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	10.031	77.282	100,314			Total	100.00	•
Iron	7439-89-6	Lead Frame	0.247	1.901	2,468	80.89	(mg) Total	Lead Frame	% of Total Weight	10.5
Silver	7440-22-4	Lead Frame	0.200	1.541	2,000		Copper	7440-50-8	95.54	
Zinc	7440-66-6	Lead Frame	0.013	0.101	131		Iron	7439-89-6	2.35	
Phosphorous	7723-14-0	Lead Frame	0.009	0.067	87		Silver	7440-22-4	1.91	
Silver (Ag)	7440-22-4	Die Attach	0.600	4.622	6,000		Zinc	7440-66-6	0.13	
Acrylate Urethane Oligomer	General	Die Attach	0.150	1.156	1,500		Phosphorous	7723-14-0	0.08	
Silicon	7440-21-3	Chip (Die)	7.500	57.780	75,000			Total	100.00	
Copper	7440-50-8	Wire Bond palladium coated copper (CuPd)	0.197	1.514	1,965	5.78	(mg) Total	Die Attach	% of Total Weight	0.75
Palladium	7440-05-3	Wire Bond palladium coated copper (CuPd)	0.004	0.027	35		Silver (Ag)	7440-22-4	80.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	1.250	9.630	12,500		Acrylate Urethane Oligome	General	20.00	
		TOTALS:	100.000	770.400	1,000,000			Total	100.00	
0.7704 α Total Mass						57.78	Total (mg)	Chip (Die)	% of Total Weight	7.5
ompliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.  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 is corporated'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 ny, is not below the threshold of regulatory concern for any regulatory scheme world-wide.								Total	100.00	-
		ble reason to believe that the unavoidable impurity concer				1.54	(mg) Total	Wire Bond palladium coated copper (CuPd)	% of Total Weight	0.2
is not below the threshold of regulatory concern for any regulato ing compounds used by Microchip meet the UL94 V0 flammabilit	ory scheme world	ole reason to believe that the unavoidable impurity concerl-wide.	tration of the	chemical subs		1.54	(mg) Total	palladium coated	% of Total Weight	0.2
	ory scheme world ity standard for pi s/	ole reason to believe that the unavoidable impurity concer- l-wide. astics. You can access the UL iQTM family of databases to	o obtain a test	chemical subs	tance, if	1.54		palladium coated copper (CuPd)		0.2
is not below the threshold of regulatory concern for any regulatory compounds used by Microchip meet the UL94 V0 flammabilit //ul.com/global/eng/pages/offerings/industries/chemicals/plastics //ul.com/global/eng/pages/offerings/industries/chemicals/plastics //ul.com/global/eng/pages/offerings/industries/chemicals/plastic micreels" may be made from PVC plastic.  Dochip Technology Incorporated believes the information in this for original packing materials is true and correct to the best of its kn	ory scheme world ity standard for pi s/ nade from polyvir orm concerning s nowledge and be	to be reason to believe that the unavoidable impurity concer- wide. astics. You can access the UL iQTM family of databases to yol chloride (PVC) plastic. "Window envelopes" used to ho substances restricted by RoHS in Microchip Technology In lief, as of the date listed in this form. Microchip Technology	o obtain a test old the packing acorporated's s y Incorporated	report at slip on the ousemiconducto	itance, if  iter box and  r devices in intee the	1.54	Copper	palladium coated copper (CuPd) 7440-50-8	98.25	0.2
is not below the threshold of regulatory concern for any regulatory compounds used by Microchip meet the UL94 V0 flammabilit //ul.com/global/eng/pages/offerings/industries/chemicals/plastics protective "tubes" in which the specific product is shipped are min "reels" may be made from PVC plastic.  sochip Technology Incorporated believes the information in this for original packing materials is true and correct to the best of its knoleteness and accuracy of data in this form because it has been comation is often protected from disclosure as trade secrets and scided only as estimates of the average weight of these parts and the stand of these parts and the secrets and the secret and th	ory scheme world ty standard for pi s/ nade from polyvir orm concerning s nowledge and be compiled based o come information the average weigl	pole reason to believe that the unavoidable impurity concer- -wide.  astics. You can access the UL iQTM family of databases to  you chloride (PVC) plastic. "Window envelopes" used to he  substances restricted by RoHS in Microchip Technology In  lief, as of the date listed in this form. Microchip Technolog  on the ranges provided in Material Safety Data Sheets prov  may not have been provided by subcontract assemblers a  tt of anticipated significant toxic metals components. The	o obtain a test old the packing accorporated's s y Incorporated ided by raw m and raw materi	report at slip on the outline of the outline	tance, if  Iter box and  Ir devices in Intee the Irs. Supplier Information is	1.54	Copper	palladium coated copper (CuPd) 7440-50-8 7440-05-3	98.25	0.2
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CuPd 2:11 PM : 8/17/2015