Compliant with IEC 62474/ D9.00 Compliant to IEC 61249-2-21:2003

MICROCHIP Semiconductor Device Type: PF (X3X) 080 TQFP 14x14x1mm 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
	·	"Contained In"	% Total			306.01	(mg) Total	Mold Compound	% ot Total Weight	57.52
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	300.01				37.32
Silica, vitreous (or fused)	60676-86-0	Mold Compound	48.892	260.105	488,920		Silica, vitreous (or fused)	60676-86-0	85.00	
Epoxy Resin Phenolic Resin	Trade Secret Trade Secret	Mold Compound Mold Compound	5.004 3.451	26.623 18.360	50,042 34,512		Epoxy Resin Phenolic Resin	Trade Secret Trade Secret	8.70 6.00	
Carbon Black	1333-86-4	Mold Compound	0.173	0.918	1,726		Carbon Black	1333-86-4	0.30	
Copper	7440-50-8	Lead Frame	31.426	167.187	314,261		Carbon Black	Total	100.00	
Tin	7440-31-5	Lead Frame	0.081	0.429	807	171.62	(mg) Total	Lead Frame	% of Total Weight	32.26
Silver	7440-22-4	Lead Frame	0.615	3.269	6,146		Copper	7440-50-8	97.42	
Zinc	7440-66-6	Lead Frame	0.058	0.309	581		Tin	7440-31-5	0.25	
Chromium	7440-47-3	Lead Frame	0.081	0.429	807		Silver	7440-22-4	1.91	
Silver (Ag)	7440-22-4	Die Attach	0.830	4.416	8,300		Zinc	7440-66-6	0.18	
ANHYDRIDE	Trade Secret	Die Attach	0.090	0.479	900		Chromium	7440-47-3	0.25	
EPOXY RESIN	Trade Secret	Die Attach	0.080	0.426	800			Total	100.00	
Silicon	7440-21-3	Chip (Die)	7.650	40.698	76,500	5.32	(mg) Total	Die Attach	% of Total Weight	1.00
Gold	7440-57-5 7440-31-5	Wire Bond	0.370 1.200	1.968 6.384	3,700 12.000		Silver (Ag)	7440-22-4	83.00 9.00	
Tin	7440-31-5	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour TOTALS:	100.000	532.000	1.000.000		ANHYDRIDE EPOXY RESIN	Trade Secret Trade Secret	9.00 8.00	
	0.5000		100.000	332.000	1,000,000		EPOXY RESIN	Total	100.00	
0.5320 g Total Mass					J (31 March			TOTAL	100.00	
mpliance with the above EU Directives has been verified vinchemical substance is absent from the list above, the che corporated's knowledge and belief as of the date of this door, is not below the threshold of regulatory concern for any	mical substance is NOT cument, there is no cred	an intentional ingredient in the semiconductor device and ble reason to believe that the unavoidable impurity concer					Doped Silicon	7440-21-3 Total	100.00	
olding 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 tp://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/					1.97	(mg) Total	Wire Bond	% of Total Weight	0.37	
ne 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 rtain "reels" may be made from PVC plastic.						Doped Gold	7440-57-5	100.00		
crochip Technology Incorporated believes the information bir original packing materials is true and correct to the best mpleteness and accuracy of data in this form because it ha ormation is often protected from disclosure as trade secre	of its knowledge and be s been compiled based is and some information	elief, 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	y Incorporated vided by raw mand raw materi	l cannot guara aterial supplie al suppliers. In	intee the ers. Supplier information is			Total	100.00	•
			se estimates d	o not include	trace levels					
rovided only as estimates of the average weight of these paid dopants, metals, and non-metal materials contained within icrochip Technology Incorporated does not provide any was arranties provided by Microchip Technology Incorporated a lotations, sales order acknowledgement, and invoices.	silicon devices (silicon	IC) in the finished parts. d, with respect to the information provided in this declarat	ion. The exclu	sive, limited pr	roduct	6.38	(mg) Total	Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour	% of Total Weight	1.20
dopants, metals, and non-metal materials contained within crochip Technology Incorporated does not provide any wa arranties provided by Microchip Technology Incorporated a	silicon devices (silicon rranty, express or implie nd its subsidiaries are o anges to Material Conte users' reliance on the in	IC) in the finished parts. d, with respect to the information provided in this declarat ontained in Microchip's standard terms and conditions of section of the conditions of the conditions and shall not be liable for any damages, di	ion. The exclusion. These are	sive, limited pr provided in M , consequentia	roduct licrochip's	6.38	(mg) Total	leads (pins) - Matte Tin / annealed at 150°C for 1	% of Total Weight	1.20
dopants, metals, and non-metal materials contained within crochip Technology Incorporated does not provide any wa rranties provided by Microchip Technology Incorporated a otations, sales order acknowledgement, and invoices. crochip disclaims any duty to notify users of updates or cherwise, suffered by users or third parties as a result of the	silicon devices (silicon rranty, express or implie nd its subsidiaries are c anges to Material Conte users' reliance on the in	IC) in the finished parts. d, with respect to the information provided in this declarat ontained in Microchip's standard terms and conditions of the first part of the provided in Microchip's standard terms and conditions of the provided in the provided	ion. The exclusion. These are	sive, limited pr provided in M , consequentia	roduct licrochip's	6.38	(mg) Total	leads (pins) - Matte Tin / annealed at 150°C for 1 hour		1.20

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