			Termir Co	Termination Base Alloy: Copper Alloy (Cu)			Package Homogeneous Materials			
Semiconductor Device Type:	ARA	"Contained In"	% Total					I		es
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	9.22	(mg) Total	Mold Compound	% ot Total Weight	47.26
Silica(Amorphous) A	60676-86-0	Mold Compound	35.587	6.939	355,868		Silica(Amorphous) A	60676-86-0	75.30	
Silica(Amorphous) B	7631-86-9	Mold Compound	4.745	0.925	47,449		Silica(Amorphous) B	7631-86-9	10.04	
Epoxy Resin	Trade Secret	Mold Compound	3.823	0.746	38,233		Epoxy Resin	Trade Secret	8.09	
Phenol Resin	9003-35-4	Mold Compound	1.423	0.277	14,225		Phenol Resin	9003-35-4	3.01	
Aluminium and its compounds	1222 96 /	Mold Compound	1.423	0.277	2 500		Aluminium and its compounds	1222 96 4	3.01	
Continuous Filament Fiber Glass	65997-17-3	Lead Frame	13 325	2 598	133 245		Carbon Black	Total	0.00	
Bismaleimide	105391-33-1	Lead Frame	4 113	0.802	41 125	9 17	(mg) Total	Lead Frame	% of Total Weight	47.00
Triazine	25722-66-1	Lead Frame	4.113	0.802	41,125	0.11	Continuous Filament Fiber Glass	65997-17-3	28.35	41100
Epoxy Resin	9003-36-5	Lead Frame	7.670	1.496	76,704		Bismaleimide	105391-33-1	8.75	
Inorganic Filler	21645-51-2	Lead Frame	0.306	0.060	3,055		Triazine	25722-66-1	8.75	
Talc containing no as bestiform fibers	14807-96-6	Lead Frame	1.105	0.215	11,045		Epoxy Resin	9003-36-5	16.32	
Morpholine derivative	trade secret	Lead Frame	1.184	0.231	11,844		Inorganic Filler	21645-51-2	0.65	
Barium sulfate	7727-43-7	Lead Frame	1.532	0.299	15,322		Talc containing no as bestiform fibers	14807-96-6	2.35	
Silica, amorphous	7631-86-9	Lead Frame	0.484	0.094	4,841		Morpholine derivative	trade secret	2.52	
Dipropylene glycol monomethyl ether	34590-94-8	Lead Frame	0.197	0.038	1,974		Barium sulfate	7727-43-7	3.26	
Epoxy Resin	85954-11-6	Lead Frame	0.212	0.041	2,115		Silica, amorphous	7631-86-9	1.03	
Copper	7440-50-8	Lead Frame	10.265	2.002	102,648		Dipropylene glycol monomethyl ether	34590-94-8	0.42	
Ni	7440-02-0	Lead Frame	2.143	0.418	21,432		Epoxy Resin	85954-11-6	0.45	
Au	7440-57-5	Lead Frame	0.353	0.069	3,525		Copper	7440-50-8	21.84	
Silver	7440-22-4	Die Attach 1	0.531	0.104	5,310		Ni	7440-02-0	4.56	
Epoxy Resin	Trade secret	Die Attach 1	0.059	0.012	590		Au	7440-57-5	0.75	
SiO2 Filler	Trade Secret	Die Attach 2	0.223	0.043	2,227			Total	100.00	
Epoxy Resin	Trade Secret	Die Attach 2	0.112	0.022	1,124	0.12	(mg) Total	Die Attach 1	% of Total Weight	0.59
Acrylic Copolymer	Trade Secret	Die Attach 2	0.067	0.013	674		Silver	7440-22-4	90.00	
Phenol Resin	Trade Secret	Die Attach 2 Chip (Die) 1	0.067	0.013	6/4		Epoxy Resin	Tade secret	10.00	
Doped Silicon	7440-21-3	Chip (Die) 1 Chip (Die) 2	2.590	0.505	25,900	0.00	(mg) Total	Dio Attach 2	% of Total Weight	0.47
Doped Silicon	7440-21-3	Wire Bond 1	0.360	0.300	3,600	0.09	SiO2 Filler	Trade Secret	// 01 Total Weight	0.47
Doped Gold	7440-57-5	Wire Bond 1	0.300	0.070	1,500		Epoxy Resin	Trade Secret	47.30	
20000 0010	1110 01 0	The Bolid E	TOTALS: 100.000	19.500	1.000.000		Acrylic Copolymer	Trade Secret	14.35	
0.0195 g Total Mass							Phenol Resin	Trade Secret	14.35	
This semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015) and							<u> </u>	Total	100.00	
zovorsared and zonor / 4/ed tendor-line venicies (ELV) without exemption (zero) Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.						0.51	Total (mg)	Chip (Die) 1	% of Total Weight	2.59
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. 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/cloab/leng/napas/offerings/flustries/schemicas/nastics/							Doped Silicon	7440-21-3 Total	100 <b>100.00</b>	
"reels" may be made from PVC plastic.						0.31	Total (mg)	Chip (Die) 2	% of Total Weight	1.58
Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their 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 these parts and 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.							Doped Silicon	7440-21-3	100	
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vicrochip 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.						0.07	(mg) Total	Wire Bond 1	% of Total Weight	0.36
Assembled package referenced above is EU REACH compliant based on the l http://echa.europa.eu/web/guest/candidate-list-table	atest SVHC cano	lidate list of ECHA which can be found at					Doped Gold	7440-57-5	100.00	
						<u> </u>		Total	100.00	
						0.03	(mg) Total	Wire Bond 2	% of Total Weight	0.15
					1		Doped Gold	7440-57-5	100	
								Total	100.00	•

19.500

100.00