Maintain	MICROCHIP]			Package Homogeneous Materials			
Basic Substance	Semiconductor Device Type:	T5X	TQFP-32-7x7x1mm-MatteTin								
Tilinatium	Basic Substance	CAS Number			mg/part	ppm	1.96	(mg) Total	Die	% of Total Weight	1.4
Tungsten 7440-33-7 Die 0.02 0.03 2.9 Tungsten 7440-33-7 Die 1.37 1.92 13720 Silcon 7440-21-3 Die 1.37 1.92 13720 Silcon 7440-22-3 Copper 7440-50-8 Leadframe 3.5.57 4.9.79 356874 Total Silcon 7440-21-3 Leadframe 0.46 0.64 4.555 Nickel 7440-22-0 Leadframe 1.60 2.24 15977 53.26 (mg) Total Lead Frame 1.60 2.24 15977 53.26 (mg) Total	Aluminium	7429-90-5	Die	0.00	0.01	48		Aluminium	7429-90-5	0.34	
Silcon	Titanium	7440-32-6	Die	0.00	0.00	4		Titanium	7440-32-6	0.03	
Copper	Tungsten	7440-33-7	Die	0.02	0.03	229		Tungsten	7440-33-7	1.63	
Silicon	Silicon	7440-21-3	Die	1.37	1.92	13720		Silicon	7440-21-3	98.00	
Nickel 7440-02-0 Leadframe 1.60 2.24 15977 53.26 (mg) Total Lead Frame 1 Magnesium 7439-96-4 Leadframe 0.11 0.16 1141 Copper 7440-58-8 Silver 7440-22-4 Leadframe 0.30 0.43 3043 Silver 7440-22-4 Del Atlach 0.56 0.79 5616 Nickel 7440-20-0 Exo-1,7,7-trimethylbicydol/2_1)hept-2-yl methacrylate 7534-94-3 Del Atlach 0.07 0.10 720 Magnesium 7439-56-4 Del Atlach 0.07 0.10 720 Magnesium 7439-56-4 Del Atlach 0.07 0.10 720 Silver 7440-22-4 Total	Copper	7440-50-8	Leadframe	35.57	49.79	355674			Total	100.00	
Magnesium	Silicon	7440-21-3	Leadframe	0.46	0.64	4565					
Silver 7440-22-4 Leadframe 0.30 0.43 3043 Silcon 7440-21-3	Nickel	7440-02-0	Leadframe	1.60	2.24	15977	53.26	(mg) Total	Lead Frame	% of Total Weight	38
Silver 7440-22-4 Die Attach 0.56 0.79 5616 Nickel 7440-02-0	Magnesium	7439-95-4	Leadframe					Copper	7440-50-8	93.50	
Exo-1,7,7-trimethylibicyclog(2.21)hept-2-yl methacrylate 7534-94-3 Die Attach 0.07 0.10 720 Magnesium 7439-95-4	Silver	7440-22-4	Leadframe	0.30	0.43	3043		Silicon	7440-21-3	1.20	
Dotecyl acrylate 2156.97-0 Die Attach 0.07 0.10 720 Silver 7440-22-4 1,6-lexanediol diacrylate 13048-33-4 Die Attach 0.01 0.01 72 Silica 60676-86-0 Mold Compound 47.82 66.94 478161 1.01 (mg) Total Die Attach 9 Epoxy Resin Trade Secret Mold Compound 5.87 8.21 58670 Silver 7440-22-4 Phenol Resin Trade Secret Mold Compound 4.69 6.57 46936 Exo-1,7/rimethylbicyclo(2,1)hept-2y 7534-94-3 Carbon Black 1333-86-4 Mold Compound 0.29 0.41 2934 Dodecyl acrylate 2156-97-0 Copper 7440-50-8 Wire 1.03 1.44 10261 1.61-texanediol diacrylate 13048-33-4 Palladium 7440-05-3 Wire 0.03 0.04 321 1.46thy-2-pyrroldone 872-50-4 Gold 7440-57-5 Wire 0.01 0.01 107 Silver 7440-22-4 Wire 0.00 0.00 11 Total Total Trade Secret Trade Secret Total Trade Secret Total Total Total Total Total Trade Secret Total Total Total Total Trade Secret Trade Secret Total Trade Secret Trad	Silver	7440-22-4	Die Attach	0.56	0.79	5616		Nickel	7440-02-0	4.20	
1,6-Hexanediol diacrylate	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Die Attach					Magnesium	7439-95-4	0.30	
1-Methyl-2-pytrolidone 872-50-4 Die Attach 0.01 0.01 72	Dodecyl acrylate	2156-97-0	Die Attach	0.07	0.10	720		Silver		0.80	
Silica 60676-86-0 Mold Compound 47.82 66.94 478161 1.01 (mg) Total Die Attach 7	1,6-Hexanediol diacrylate	13048-33-4	Die Attach	0.01	0.01				Total	100.00	
Epoxy Resin Trade Secret Mold Compound 5.87 8.21 58670 Silver 7440-22-4	1-Methyl-2-pyrrolidone	872-50-4	Die Attach	0.01	0.01	72					
Phenot Resin Trade Secret Mold Compound 4.69 6.57 46936 Exo-1,77-innethylicyclo(2,21)lept-2yl 7534-94-3	Silica	60676-86-0	Mold Compound	47.82	66.94	478161	1.01	(mg) Total	Die Attach	% of Total Weight	0.
Carbon Black 1333-86-4 Mold Compound 0.29 0.41 2934 Dotesyl advisate 2156-97-0	Epoxy Resin	Trade Secret	Mold Compound	5.87	8.21	58670		Silver	7440-22-4	78.00	
Copper 7440-50-8 Wire 1.03 1.44 10261 1,6-Hexanediol diacrylate 13048-33-4	Phenol Resin	Trade Secret	Mold Compound	4.69	6.57	46936			7534-94-3	10.00	
Palladium								Dodecyl acrylate	2156-97-0	10.00	
Gold 7440-57-5 Wire 0.01 0.01 107	Copper	7440-50-8	Wire		1.44			1,6-Hexanediol diacrylate	13048-33-4	1.00	
Silver 7440-22-4 Wire 0.00 0.00 11	Palladium			0.03	0.04			1-Methyl-2-pyrrolidone	872-50-4	1.00	
Tin 7440-31-5 Anode Ball 0.10 0.14 999 82.14 (mg) Total Mold Compound 9 TOTALS: 100.00 140.00 1,000,000 Silica 60676-86-0 140.00 mg Total Mass 140.00 mg Total Mass Phenol Resin Trade Secret Phenol Resin Indeed to be sufficiently representative of all part numbers for Carbon Black 1333-86-4	Gold	7440-57-5	Wire	0.01		107			Total	100.00	
TOTALS: 100.00 140.00 1,000,000 Silica 60676-86-0 140.00 mg Total Mass Epoxy Resin Trade Secret Phenol Resin Trade Secret Phenol Resin Trade Secret October 1 mation contained in this Material Content Declaration (MCD) consists of package-level information and is not part number specific. This information is considered to be sufficiently representative of all part numbers for Carbon Black 1333-86-4	Silver		Wire	0.00							
140.00 mg Total Mass Epoxy Resin Trade Secret 140.00 mg Total Mass Epoxy Resin Trade Secret Pheno Resin Trade Secret Trade Secret 140.00 mg Total Mass 140.00 mg Total Mass Epoxy Resin Trade Secret 140.00 mg Total Mass 140.00 mg Total Mass	Tin	7440-31-5	Anode Ball	0.10	0.14	999	82.14	(mg) Total	Mold Compound	% of Total Weight	58
Phenol Resin Trade Secret ation contained in this Material Content Declaration (MCD) consists of package-level information and is not part number specific. This information is considered to be sufficiently representative of all part numbers for Carbon Black 1333-86-4			TOTALS	S: 100.00	140.00	1,000,000		Silica	60676-86-0	81.50	
Phenol Resin Trade Secret attion contained in this Material Content Declaration (MCD) consists of package-level information and is not part number specific. This information is considered to be sufficiently representative of all part numbers for Carbon Black 1333-86-4		140.	00 mg Total Mass					Epoxy Resin	Trade Secret	10.00	
			• • • • • • • • • • • • • • • • • • • •					Phenol Resin	Trade Secret	8.00	
	ation contained in this Material Content Declaration (MCD) consists	of package-level information and is	not part number specific. This information is considere	d to be sufficiently	representative of all pa	t numbers for		Carbon Black	1333-86-4	0.50	
									Total	100.00	
Technology Incorporated designs all products to comply with global product material compliance standards, including but not limited to RoHS, REACH, and China RoHS. Additionally, Microchip products are designed to 1.50 (mg) Total Wire	Technology Incorporated designs all products to comply with global	I product material compliance stand	ards, including but not limited to RoHS, REACH, and C	nina RoHS. Addition	nally, Microchip product	s are designed to	1.50	(mg) Total	Wire	% of Total Weight	1
ant with IEC62474. For specific compliance information, please check our product material compliance website on microchip.com or ask your local sales representative.		k our product material compliance w	rebsite on microchip.com or ask your local sales repre-	sentative.		-				95.90	
Palladium 7440-05-3	ant with IEC62474. For specific compliance information, please chec										
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Anode Ball 7440-31-5 % of Total Weight