MICROCHIP  Semiconductor Device Type: E5X TQFP-100-14x14x1mm-MatteTin										
Semiconductor Device Type:	ESA									
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	300.79	(mg) Total	Mold compound	% of Total Weight	57.2
Solid Epoxy Resin-1	Trade Secret	Mold compound	2.58	13.54	25771		Solid Epoxy Resin-1	Trade Secret	4.50	
Solid Epoxy Resin-2	Trade Secret	Mold compound	3.72	19.55	37225		Solid Epoxy Resin-2	Trade Secret	6.50	
Hardener	Trade Secret	Mold compound	3.44	18.05	34362		Hardener	Trade Secret	6.00	
Carbon Black	1333-86-4	Mold compound	0.29	1.50	2863		Carbon Black	1333-86-4	0.50	
Amorphous Silica	60676-86-0	Mold compound	47.25	248.15	472477		Amorphous Silica	60676-86-0	82.50	
Copper	7440-50-8	Leadframe	36.48	191.61	364826		'	Total	100.00	
Magnesium	7439-95-4	Leadframe	0.06	0.33	635					
Nickel	7440-02-0	L eadframe	1.16	6.09	11590	209.90	(mg) Total	Leadframe	% of Total Weight	39.
Silicon	7440-21-3	Leadframe	0.26	1.37	2618		Copper	7440-50-8	91.29	
Silver	7440-22-4	Leadframe	2.00	10.50	19983		Magnesium	7439-95-4	0.16	
Silicon	7440-21-3	Die	1.03	5.43	10331		Nickel	7440-02-0	2.90	
Silver Flake	7440-22-4	Epoxy	0.11	0.57	1092		Silicon	7440-21-3	0.66	
Epoxy Acylate	15625-89-5	Epoxy	0.01	0.06	108		Silver	7440-22-4	5.00	
Substituted Polyamine	68490-66-4	Epoxy	0.00	0.02	29			Total	100.00	
Bisphenol F	28064-14-4	Epoxy	0.01	0.08	145					
2-Ethylhexyl Glycidyl Ether	2461-15-6	Epoxy	0.01	0.04	72	5.43	(mg) Total	Die	% of Total Weight	1.
Copper	7440-50-8	Wire	0.15	0.76	1450		Silicon	7440-21-3	100.00	
Palladium	7440-05-3	Wire	0.00	0.02	46		•	Total	100.00	
Tin	7440-31-5	External plating	1.44	7.55	14375					
•		TOTALS	: 100.00	525.21	1,000,000	0.76	(mg) Total	Epoxy	% of Total Weight	0.
525.21 mg Total Mass							Silver Flake	7440-22-4	75.50	
y							Epoxy Acylate	15625-89-5	7.50	
ormation 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							Substituted Polyamine	68490-66-4	2.00	
nbers for the package type.							Bisphenol F	28064-14-4	10.00	
. •							2-Ethylhexyl Glycidyl Ether	2461-15-6	5.00	
Technology Incorporated designs all products to comply with glob								Total	100.00	
re designed to be compliant with IEC62474. For specific complian	ce information, please check our	product material compliance website on microchip.com	n or ask your lo	ocal sales repr	esentative.	0.79	() T-4-1	Wire	% of Total Weight	0.
						0.79	(mg) Total Copper	7440-50-8	% of Lotal Weight	U.
Technology Incorporated believes the information in this MCD is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated userantee the completeness and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of the data in this form because it has been completed bear and accuracy of the data in this form because it has been completed bear and accuracy of data in this form because it has been completed bear and accuracy of the data in the data ind							Palladium	7440-05-3	3.10	
							1 GRAGOSTI	Total	100.00	
ie often protected from disclosure as trade secrets and some inf										
n is often protected from disclosure as trade secrets and some inf of the average weight of these parts. These estimates do not inclu inished parts.						7.55	(mg) Total	External plating	% of Total Weight	1.44

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"MoldComp-Leadframe-DieAttach" 3:10 PM : 5/10/2024