AICROCHIP Semiconductor Device Type:	M3X	SPDIP-28-0.3in-MatteTin	-							
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	1656.43	(mg) Total	Mold Compound	% of Total Weight	79.
Epoxy Resin	Trade Secret	Mold Compound	11.90	248.46	119026		Epoxy Resin	Trade Secret	15.00	
Hardner	Trade Secret	Mold Compound	9.52	198.77	95221		Hardner	Trade Secret	12.00	
Carbon Black	1333-86-4	Mold Compound	1.59	33.13	15870		Carbon Black	1333-86-4	2.00	
Metal Hydroxide	Trade Secret	Mold Compound	12.70	265.03	126961		Metal Hydroxide	Trade Secret	16.00	
Amorphous Silica	60676-86-0	Mold Compound	43.64	911.04	436428		Amorphous Silica	60676-86-0	55.00	
Iron	7439-89-6	Lead Frame	0.02	0.46	219		Amorphous Olica	Total	100.00	
Phosphorus	7723-14-0	Lead Frame	0.02	0.40	120			Iotai	100.00	
Zinc	7440-66-6	Lead Frame	0.02	0.23	183	218.15	(mg) Total	Lead Frame	% of Total Weight	10
Copper	7440-66-6	Lead Frame	9.14	190.88	91438	210.15	(mg) rotal	7439-89-6	0.21	10
Silver	7440-30-6	Lead Frame	1.25	26.18	12540		Phosphorus	7439-89-6	0.21	
Lead	7440-22-4 7439-92-1	Lead Frame	0.00	0.00	12540		Zinc	7440-66-6	0.11	
Silver	7439-92-1 7440-22-4	Die Attach	0.60	12.53	6000		Copper	7440-66-6	0.17 87.50	
Epoxy Resin	9003-36-5	Die Attach	0.60	2.11	1013		Silver	7440-22-4	12.00	
t-Butyl phenyl glycidyl ether	3101-60-8	Die Attach	0.10	0.78	375		Lead	7440-22-4	0.00	
Phenolic Hardner	Trade Secret	Die Attach	0.04	0.76	75		Lead	7439-92-1 Total	100.00	
Dicyandiamide	461-58-5	Die Attach	0.00	0.16	38			Iotai	100.00	
Aluminum	7429-90-5	Die Attach	0.00	0.08	256	15.66	() T-4-1	Die Amerik	% of Total Weight	
	7429-90-5					15.66	(mg) Total	Die Attach		0.
Titanium	7440-32-6	Die Die	0.00	0.04 2.56	21 1225		Silver Epoxy Resin	7440-22-4 9003-36-5	80.00 13.50	
Tungsten	7440-33-7	Die Die		153.42						
Silicon	7440-21-3 7440-50-8	Wire Bond	7.35 0.19	4.01	73497 1920		t-Butyl phenyl glycidyl ether	3101-60-8	5.00 1.00	
Copper Palladium		Wire Bond	0.19	0.13	60		Phenolic Hardner Dicvandiamide	Trade Secret 461-58-5	0.50	
Gold	7440-05-3 7440-57-5	Wire Bond	0.00	0.13	10		Dicyandiamide			
								Total	100.00	
Silver	7440-22-4	Wire Bond	0.00	0.00	2				T	
Tin	7440-31-5	Lead Plating	1.25	26.08	12494	156.56	(mg) Total	Die	% of Total Weight	7
Lead	7439-92-1	Lead Plating	0.00	0.01	6		Aluminum	7429-90-5	0.34	
Silicon Coated Polyester Film	Trade Secret	Lead Frame Tape	0.35	7.20	3451		Titanium	7440-32-6	0.03	
Polyimide Film	Trade Secret	Lead Frame Tape	0.13	2.61	1250		Tungsten	7440-33-7	1.63	
Silicone Resin	Trade Secret	Lead Frame Tape	0.03	0.63	300		Silicon	7440-21-3	98.00	
	2097.49	mg Total Mass	LS: 100.00	2087.48	1,000,000			Total	100.00	
	2007.40	ing Total mass				4.16	(mg) Total	Wire Bond	% of Total Weight	0
tion contained in this Material Content Declaration (MCD) consists	s of package-level information and is	not part number specific. This information is co	onsidered to be su	ifficiently repr	resentative of		Copper	7440-50-8	96.39	
pers for the package type.							Palladium	7440-05-3	3.01	
					_		Gold	7440-57-5	0.50	
echnology Incorporated designs all products to comply with glob							Silver	7440-22-4	0.10	
designed to be compliant with IEC62474. For specific compliance	e information, please check our prod	uct material compliance website on microchip.	com or ask your k	ocal sales rep	resentative.			Total	100.00	
	ue and correct to the best of its know	ledge and belief, as of the date listed in this for	m. Microchip Tech	nology Incor	porated	26.09	(mg) Total	Lead Plating	% of Total Weight	1
echnology incorporated believes the information in this MCD is to	arantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Safety Data Sheets provided by raw material suppliers. Supplier						Tin	7440-31-5	99.95	
							Lead	7439-92-1	0.05	
antee the completeness and accuracy of data in this form becaus		by subcontract assemblers and raw material su	uppliers. Informat	ion is proviae						
is often protected from disclosure as trade secrets and some info f the average weight of these parts. These estimates do not includ	ormation may not have been provided						Ecau	Total	100.00	
intee the completeness and accuracy of data in this form becaus s often protected from disclosure as trade secrets and some info the average weight of these parts. These estimates do not includ	ormation may not have been provided							Total	100.00	
antee the completeness and accuracy of data in this form becaus is often protected from disclosure as trade secrets and some info	ormation may not have been provided de trace levels of dopants, impurities,	metals, and non-metallic materials which may b	e contained withi	n silicon devi	ces (silicon	10.44	(mg) Total Silicon Coated Polyester Film			0.

Microchip disclaims any duty to notify users of updates or changes to MCDs 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 MCDs.

and invoices.

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