MICROCHIP

## **Package Homogeneous Materials**

Semiconductor Device Type: G5X-SOIC-20300in-MatteTin			1							
Sub-Component	Basic Substance	CAS Number	% Total Weight	mg/part	ppm	11.62	(mg) Total	Die	% of Total Weight	2.07
Die	Silicon	7440-21-3	2.07	11.62	20656		Silicon	7440-21-3	100.00	
Lead Frame	Copper	7440-50-8	29.40	165.32	293979			Total	100.00	
Lead Frame	Iron	7439-89-6	0.67	3.76	6682					
Lead Frame	Phosphorus	7723-14-0	0.03	0.17	304	170.81	(mg) Total	Lead Frame	% of Total Weight	30.37
Lead Frame	Zinc	7440-66-6	0.03	0.17	304		Copper	7440-50-8	96.78	
Lead Frame	Nickel	7440-02-0	0.24	1.37	2430		Iron	7439-89-6	2.20	
Lead Frame	Palladium	7440-05-3	0.00	0.03	49		Phosphorus	7723-14-0	0.10	
Die Attach Epoxy	Silver	7440-22-4	0.31	1.76	3127		Zinc	7440-66-6	0.10	
Die Attach Epoxy	Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	0.01	0.08	146		Nickel	7440-02-0	0.80	
Die Attach Epoxy	Fatty acids, C18-unsatd., dimers, polymers with epichlorohydrin	68475-94-5	0.01	0.08	146		Palladium	7440-05-3	0.02	
Die Attach Epoxy	y-Butyrolactone	96-48-0	0.00	0.02	37			Total	100.00	
Die Attach Epoxy	Epoxy Resin	Trade Secret	0.00	0.02	37					
Die Attach Epoxy	Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	9046-10-0	0.01	0.04	73	2.06	(mg) Total	Die Attach Epoxy	% of Total Weight	0.37
Die Attach Epoxy	Copper oxide	1317-38-0	0.01	0.04	73		Silver	7440-22-4	85.50	
Die Attach Epoxy	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	0.00	0.01	18		Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	4.00	
Bonding Wire	Gold	7440-57-5	0.14	0.77	1363		Fatty acids, C18-unsatd., dimers, polymers with epichlorohydrin	68475-94-5	4.00	
Mold Compound	Epoxy Resin A	Trade Secret	3.32	18.67	33200		y-Butyrolactone	96-48-0	1.00	
Mold Compound	Epoxy Resin B	29690-82-2	1.33	7.47	13280		Epoxy Resin	Trade Secret	1.00	
Mold Compound	Phenol Resin	Trade Secret	1.33	7.47	13280		Poly[oxy(methyl-1,2-ethanediyl)], a-(2- aminomethylethyl)-w-(2- aminomethylethoxy)-	9046-10-0	2.00	
Mold Compound	Silica(Amorphous)	60676-86-0	59.76	336.06	597604		Copper oxide	1317-38-0	2.00	
Mold Compound	Carbon Black	1333-86-4	0.66	3.73	6640		1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	0.50	
External Plating	Tin	7440-31-5	0.66	3.70	6571			Total	100.00	
	·	TOTALS:	100.00	562.34	1,000,000					
	562.34 mg Total Mass						(mg) Total	Bonding Wire	% of Total Weight	0.14

The information 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 the package type.

Microchip 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 be compliant with IEC62474. For specific compliance information, please check our product material compliance website on microchip.com or ask your local sales representative.

Microchip 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 cannot guarantee 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 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. These estimates do not include trace levels of dopants, impurities, metals, and non-metallic materials which may be contained within silicon devices (silicon IC) or the finished parts.

Microchip Technology Incorporated does not provide any warranty, express or implied, with respect to the Information provided in this declaration. The exclusive, limited product warranties provided by Microchip Technology Incorporated, and its subsidiaries are contained in Microchip's standard terms and conditions of sale. These are provided in Microchip's quotations, sales order acknowledgements, and invoices.

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.

0.77	(mg) i otai	Bonding wire	% of Total Weight	0.14
	Gold	7440-57-5	100.00	
		Total	100.00	
373.40	(mg) Total	Mold Compound	% of Total Weight	66.40
	Epoxy Resin A	Trade Secret	5.00	
	Epoxy Resin B	29690-82-2	2.00	
	Phenol Resin	Trade Secret	2.00	
	Silica(Amorphous)	60676-86-0	90.00	
	Carbon Black	1333-86-4	1.00	
		Total	100.00	
3.70	(mg) Total	External Plating	% of Total Weight	0.66
	Tin	7440-31-5	100.00	
562.34		Total	100.00	100.00

G600-C194-8290 9:11 AM : 7/17/2025