



Semiconductor Device Type: OT / CH / OTY (6AX) 006 SOT-23 NiPdAu			Termination Base Alloy: Copper Alloy (Cu)			
Basic Substance	CAS Number	"Contained In" Sub-Component	% Total Weight	mg/part	ppm	
Silica, vitreous (or fused)	60676-86-0	Mold Compound	41.021	6.748	410.210	
Epoxy Resin	Trade Secret	Mold Compound	4.199	0.691	41.986	
Phenolic Resin	Trade Secret	Mold Compound	2.896	0.476	28.956	
Carbon Black	1333-86-4	Mold Compound	0.145	0.024	1.448	
Copper	7440-50-8	Lead Frame	48.319	7.949	483.192	
Iron	7439-89-6	Lead Frame	1.142	0.188	11.422	
Phosphorous	7723-14-0	Lead Frame	0.124	0.020	1.242	
Zinc (Metal)	7440-44-0	Lead Frame	0.074	0.012	745	
Aluminum oxide	1344-28-1	Die Attach	0.143	0.024	1.435	
Epoxy resin	Trade Secret	Die Attach	0.261	0.043	2.609	
Amine (Trade Secret - 10039)	Trade Secret	Die Attach	0.016	0.003	157	
Silicon	7440-21-3	Chip (Die)	1.090	0.179	10.900	
Gold	7440-57-5	Wire Bond	0.120	0.020	1.200	
Nickel	7440-02-0	Plating on external leads (pins)	0.431	0.071	4.308	
Palladium	7440-05-3	Plating on external leads (pins)	0.015	0.002	145	
Gold	7440-57-5	Plating on external leads (pins)	0.005	0.001	47	
0.0165 g Total Mass			TOTALS:	100.000	16.450	1,000,000

Package Homogeneous Materials: 8.1 Electronics (e.g. pc boards, displays)			JEDEC 97 Product Marking and/or Pkg. Labeling e4															
7.94 (mg) Total	Mold Compound	% of Total Weight	48.26															
<table border="1"> <tr> <td>Silica, vitreous (or fused)</td> <td>60676-86-0</td> <td>85.00</td> </tr> <tr> <td>Epoxy Resin</td> <td>Trade Secret</td> <td>8.70</td> </tr> <tr> <td>Phenolic Resin</td> <td>Trade Secret</td> <td>6.00</td> </tr> <tr> <td>Carbon Black</td> <td>1333-86-4</td> <td>0.30</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Silica, vitreous (or fused)	60676-86-0	85.00	Epoxy Resin	Trade Secret	8.70	Phenolic Resin	Trade Secret	6.00	Carbon Black	1333-86-4	0.30	Total		100.00		
Silica, vitreous (or fused)	60676-86-0	85.00																
Epoxy Resin	Trade Secret	8.70																
Phenolic Resin	Trade Secret	6.00																
Carbon Black	1333-86-4	0.30																
Total		100.00																
8.17 (mg) Total	Lead Frame	% of Total Weight	49.66															
<table border="1"> <tr> <td>Copper</td> <td>7440-50-8</td> <td>97.30</td> </tr> <tr> <td>Iron</td> <td>7439-89-6</td> <td>2.30</td> </tr> <tr> <td>Phosphorous</td> <td>7723-14-0</td> <td>0.25</td> </tr> <tr> <td>Zinc (Metal)</td> <td>7440-44-0</td> <td>0.15</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Copper	7440-50-8	97.30	Iron	7439-89-6	2.30	Phosphorous	7723-14-0	0.25	Zinc (Metal)	7440-44-0	0.15	Total		100.00		
Copper	7440-50-8	97.30																
Iron	7439-89-6	2.30																
Phosphorous	7723-14-0	0.25																
Zinc (Metal)	7440-44-0	0.15																
Total		100.00																
0.07 (mg) Total	Die Attach	% of Total Weight	0.42															
<table border="1"> <tr> <td>Aluminum oxide</td> <td>1344-28-1</td> <td>34.16</td> </tr> <tr> <td>Epoxy resin</td> <td>Trade Secret</td> <td>62.11</td> </tr> <tr> <td>Amine (Trade Secret - 10039)</td> <td>Amine (Trade Secret - 10039)</td> <td>3.73</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Aluminum oxide	1344-28-1	34.16	Epoxy resin	Trade Secret	62.11	Amine (Trade Secret - 10039)	Amine (Trade Secret - 10039)	3.73	Total		100.00					
Aluminum oxide	1344-28-1	34.16																
Epoxy resin	Trade Secret	62.11																
Amine (Trade Secret - 10039)	Amine (Trade Secret - 10039)	3.73																
Total		100.00																
0.18 Total (mg)	Chip (Die)	% of Total Weight	1.09															
<table border="1"> <tr> <td>Doped Silicon</td> <td>7440-21-3</td> <td>100.00</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Doped Silicon	7440-21-3	100.00	Total		100.00											
Doped Silicon	7440-21-3	100.00																
Total		100.00																
0.02 (mg) Total	Wire Bond	% of Total Weight	0.12															
<table border="1"> <tr> <td>Doped Gold</td> <td>7440-57-5</td> <td>100.00</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Doped Gold	7440-57-5	100.00	Total		100.00											
Doped Gold	7440-57-5	100.00																
Total		100.00																
0.07 (mg) Total	Plating on external leads (pins)	% of Total Weight	0.45															
<table border="1"> <tr> <td>Nickel</td> <td>7440-02-0</td> <td>95.73</td> </tr> <tr> <td>Palladium</td> <td>7440-05-3</td> <td>3.23</td> </tr> <tr> <td>(Gold)</td> <td>7440-57-5</td> <td>1.04</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100.00</td> </tr> </table>		Nickel	7440-02-0	95.73	Palladium	7440-05-3	3.23	(Gold)	7440-57-5	1.04	Total		100.00					
Nickel	7440-02-0	95.73																
Palladium	7440-05-3	3.23																
(Gold)	7440-57-5	1.04																
Total		100.00																

16.450

100.000

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 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero)

Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.

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/global/eng/pages/offerings/industries/chemicals/plastics/>

The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.

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.

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 acknowledgement, and invoices.

Microchip 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.

Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at <http://echa.europa.eu/web/guest/candidate-list-table>