| Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions. | | | | | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowel level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility. | | | | | | | | | | | |
|---|---|-----------|---------------------------|--|---|---|-------------------------|---------|---------------------|-----|---------------------------------|--------------------------|----------------|-------------------------|----|------|
| 752-21.1 IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Distr | | | | Form Type Distribute | e * | * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mate | | | | | rials and Mf | ials and Mfg Information | | | | |
| upplier | · Information | | | | | | | | | | | | | | | |
| Company name* Comp | | | Company uni | Company unique ID | | | Unique ID Authority | | | | | Response | Response Date* | | | |
| nsemi | | | | | | | | | | | | 2023-06- | 2023-06-08 | | | |
| ontact N | ame | | Title - Contact | | | I | Phone - Contact* | | | | Email - Contact* | | | | | |
| Product-I | Env-Stewards | | Product Enviro Compliance | | |] | NA | | | | Product-Env-Stewards@onsemi.com | | | | | |
| Authorized Representative* | | | Title - Representative | | | I | Phone - Representative* | | | | Email - Representative* | | | | | |
| Product-H | Env-Stewards | | Product Envir | ro Compliance | |] | NA | | | | Product-Env-Stewards@onsemi.com | | | | | |
| | Requester Item Number Mfr Iten | | Number | mber Mfr Item Name Effective Date Version Ma | | | | Manufac | anufacturing Site W | | | ht* | UOM | Unit Type | | |
| | AR01300 A0-DRB | | CSSM00SPC BR2 | 00SPC 1.2 MP 1/3 CIS | | | 2023-06-08 | | | TA1 | | 2 | 64.22 | 2 | mg | Each |
| Ianufa | cturing Proccess Information | on | | | | | | • | | | | | | | | |
| | Terminal Plating / Grid Array Material | | Terminal Base A | Alloy | loy J-STD-020 M | | Peak Process | | Body Temperature M | | Time at Peal | eak Temperatu | | Number of Reflow Cycles | | |
| | Precious metal (e.g. Ag,Au, NiPdAu) (no Sn) | | CU Alloy | 4 | | | 260 C | | C | 30 | 30 seco | | onds 3 | | | |
| omments | | | | | | | · · | | | | | | | · | · | |
| | information regarding material co | mnosition | planca rafar to | naga 3 | | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | Declaration Type * | Detail | ed |
|--|---|---|---|---|---|
| Directive 2015/863/EU amending RoHS Directive 2011/65/EU | | ium (Cr6+), Polybrominated Biphenyls (PB) | erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a | | |
| cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan | nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C | enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega | s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this | dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ | homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of |
| RoHS Declaration * 1 - Item | (s) does not contain RoHS restricted substar | nces per the definition above | Supplier A | cceptance * | Accepted |
| Exemption: If the declared item does not applicable exemptions. | contain RoHS restricted substances per t | he definition above except for defined Rol | IS exemptions, then select the corresponding | response in the R | oHS Declaration above and choose all |
| Exemption List Version | EL-2011/534/EU | | | | |
| Declaration Signature | | | | | |
| | | | | | |
| | | e "Accepted" on the Supplier Acceptance | drop-down. This will display the signature a | rea. Digitally sign t | the declaration (if required by the |

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
|---------------------------|--------|-----------------|----------|---|------------------|--------|---------|-----------------|
| Die | 57.0 | mg | | Misc. | proprietary data | | 0.2166 | mg |
| | | | Supplier | Silicon (Si) | 7440-21-3 | | 56.2191 | mg |
| | | | Supplier | Aluminum (Al) | 7429-90-5 | | 0.5643 | mg |
| Die Attach | 2.5 | mg | Supplier | Bisphenol A_Epichlorohydrin Polymer | 25068-38-6 | | 0.9375 | mg |
| | | | Supplier | Ethylene Glycol | 107-21-1 | | 0.025 | mg |
| | | | Supplier | Sulfonium (Thiodi-4,1-phenylene) | 89452-37-9 | | 0.075 | mg |
| | | | Supplier | Modified Silicon Dioxide (SiO2) | 67762-90-7 | | 0.525 | mg |
| | | | Supplier | Formaldehyde Polymer | 9003-36-5 | | 0.9375 | mg |
| Imaging Lens | 60.5 | mg | Supplier | Titanium Dioxide (TiO2) | 13463-67-7 | | 3.025 | mg |
| | | | Supplier | Sodium Monoxide (Na2O) | 1313-59-3 | | 3.025 | mg |
| | | | Supplier | Boron Trioxide (B2O3) | 1303-86-2 | | 3.025 | mg |
| | | | Supplier | Zinc Monoxide (ZnO) | 1314-13-2 | | 3.025 | mg |
| | | | В | Antimony Trioxide (Sb2O3) | 1309-64-4 | | 0.3025 | mg |
| | | | Supplier | Aluminum Trioxide (Al2O3) | 1344-28-1 | | 3.025 | mg |
| | | | Supplier | Potassium Monoxide (K2O) | 12136-45-7 | | 3.025 | mg |
| | | | Supplier | Silica Crystalline (SiO2) | 14808-60-7 | | 42.0475 | mg |
| Lid Attach | 2.6 | mg | Supplier | Bisphenol A_Epichlorohydrin Polymer | 25068-38-6 | | 0.8216 | mg |
| | | | Supplier | Filler (SiO2) | 68909-20-6 | | 0.1352 | mg |
| | | | Supplier | Epoxy Prepolymer | Proprietary Data | | 0.8216 | mg |
| | | | Supplier | Formaldehyde Polymer | 9003-36-5 | | 0.8216 | mg |
| Mold Compound-Black | 54.0 | mg | | Phenolic Resin | proprietary data | | 8.1 | mg |
| | | | Supplier | Oxirane | 39817-09-9 | | 8.1 | mg |
| | | | Supplier | 1,4-Bis(2,3-epoxypropoxy)butane | 2425-79-8 | | 1.62 | mg |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 0.54 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 34.56 | mg |
| | | | Supplier | Silica Crystalline (SiO2) | 14808-60-7 | | 1.08 | mg |
| Substrate and Solder Mask | 87.4 | mg | Supplier | Acetophenone | 98-86-2 | | 1.713 | mg |
| | | | Supplier | Fiber Glass (SiO2) | 65997-17-3 | | 19.3941 | mg |
| | | | Supplier | Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2) | 14807-96-6 | | 1.1449 | mg |
| | | | Supplier | Silica Amorphous (SiO2) | 7631-86-9 | | 1.1537 | mg |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 0.2884 | mg |

| | | | Supplier | 2,4-Diethyl-9H-thioxanthen-9-one (DETX) | 82799-44-8 | 0.2884 | mg |
|----------------|------|----|----------|---|------------------|--------|----|
| | | | Supplier | Solvent Naphtha (Solvent oil) | 64742-94-5 | 3.4261 | mg |
| | | | Supplier | Bismaleimide Triazine resin | Proprietary Data | 8.74 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | 42.389 | mg |
| | | | Supplier | Barium Sulfate (BaSO4) | 7727-43-7 | 8.8624 | mg |
| Wire Bond - Au | 0.22 | mg | Supplier | Gold (Au) | 7440-57-5 | 0.22 | mg |