| ASSOCIATION CONNECTING  | © Copyright 2005. IPC,<br>international and Pan-Ar   | Bannockb             | urn, Illinois. A          | ll rights reserved utions. | under both                         | This docume<br>level parts, t   | ent is a declarat<br>he declaration of | ion of the su<br>encompasse | ibstances v<br>s all lower | within the manufactu<br>level materials for w | rer listed i<br>which the n | tem. Note:<br>nanufacture | if the item is an as<br>er has engineering | ssembly with low responsibility. |
|---|--|----------------------|---------------------------|----------------------------|------------------------------------|---|--|-----------------------------|----------------------------|---|-----------------------------|---------------------------|--|----------------------------------|
| 752-21.1  | IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute |                      |                           |                            | *                                  | Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information |  |                             |                            |   |                             |                           |  |                                  |
| Supplier Inform   | ation  |                      |                           |                            |                                    |   |  |                             |                            |   |                             |                           |  |                                  |
| Company name* Company unique ID                                 |  |                      |                           |                            |                                    | Unique ID Authority   |  |                             | Response Date*             |   |                             |                           |  |                                  |
| nsemi   |  |                      |                           |                            |                                    |   |  |                             |                            |   | 2024-04-17                  |                           |  |                                  |
| Contact Name  |  |                      | Title - Contact           |                            |                                    |   | Phone - Contact*                       |                             |                            | Email - Contact*                              |                             |                           |  |                                  |
| Product-Env-Stewards  |  |                      | Product Enviro Compliance |                            |                                    |   | NA                                     |                             |                            | Product-Env-Stewards@onsemi.com               |                             |                           |  |                                  |
| uthorized Represer  | ntative*   |                      | Title - Repres            | Title - Representative     |                                    |   | Phone - Representative*                |                             |                            | Email - Representative*                       |                             |                           |  |                                  |
| Product-Env-Stewards  |  |                      | Product Envir             | o Compliance               | NA Product-Env-Stewards@onsemi.com |   |  |                             | <b>m</b>                   |   |                             |                           |  |                                  |
| Requester Item Number Mfr Item                                  |  | Number Mfr Item Name |                           |                            | Effective Date                     | Version   | N                                      | Manufacturing Site          |                            | Weight*                                       | UOM                         | Unit Type                 |  |                                  |
|   |  | AR0140<br>A0-CL-T    | AT2C00XUE<br>TRBR         | 1.0 MP 1/4 CIS             |                                    |   | 2024-04-17                             |                             | N                          | 1Y5   |                             | 191.2                     | mg   | Each                             |
| Ianufacturing I   | Proccess Information   | 1                    |                           |                            |                                    |   |  |                             |                            |   |                             |                           |  |                                  |
| Terminal Plating / Grid Array Material Terminal Base Alloy J-ST |  |                      | J-STD-020 MS              | L Rating                   | Peak Proc                          | ess Body T  | emperatur                              | e Max Time at Peak          | Tempera                    | ture Num                                      | ber of Reflow Cy            | cles                      |  |                                  |
| SnAgCu CU Alloy 3   |  |                      |                           |                            |                                    | 260   |  | С                           | 30                         | secon   | nds 3                       |                           |  |                                  |
| omments   |  |                      |                           |                            |                                    |   |  |                             |                            |   |                             |                           |  |                                  |
| <b>FTENTION: MSL</b>  | 3 Rated item requires Ba   | ake and D            | ry Pack (after            | electrical test)           |                                    |   |  |                             |                            |   |                             |                           |  |                                  |
| or more informatio  | n regarding material con   | position             | please refer to           | page 3                     |                                    |   |  |                             |                            |   |                             |                           |  |                                  |

| RoHS Material Composition Declaration  |  |  |   | Declaration Type *  | Detailed  |
|--|--|--|---|---|---|
| Directive 2015/863/EU amending RoHS<br>Directive 2011/65/EU  |  | nium (Cr6+), Polybro   | ominated Biphenyls (PBB), Polybron  | dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth |   |
| cadmium, hexavalentchromium, polybrominate<br>contains a RoHS restricted substance inexcess<br>encompass all such components. Supplier certif<br>as of the date that Supplier completes this form<br>Company acknowledges that Supplier may hav<br>independently verified information provided by<br>certification in this paragraph. If the Company a | ed biphenyls and/or polybrominated dip<br>of an applicable quantity limit, please ir<br>ies that it gathered the information it pro-<br>.Supplier acknowledges that Company<br>e relied on informationprovided by othe<br>v others, Supplier agrees that, at a minin<br>and the Supplier enter into a written agre<br>pource of the Supplier's liability and the | henyl ethers (each a "<br>ndicate below which, i<br>ovides in this form us<br>will rely on this certifiers<br>in completing this<br>num, itssuppliers have<br>eement with respect to<br>Company's remedies | RoHS restricted substance") in exce<br>if any, RoHS exemption you believe<br>ing appropriate methods to ensure if<br>ication in determining the complian<br>form, and that Supplier may not have<br>e provided certifications regarding the<br>to the identified part, the terms and co<br>for issues that arise regarding inform | ce of its products with European Union membe  | ove. If a homogeneous material within the part<br>er level components, the declaration shall<br>l correct to the best of its knowledge and belief,<br>r state laws that implement the RoHS Directive.<br>wever, in situations where Supplier has not<br>tions are at least as comprehensive as the<br>anty rights and/or remedies provided as part of |
| RoHS Declaration * 1 - Item(s)   | does not contain RoHS restricted substa  | ances per the definitio  | on above  | Supplier Acceptance   | * Accepted  |
| Exemption: If the declared item does not con applicable exemptions.  | ntain RoHS restricted substances per   | the definition above   | except for defined RoHS exempti   | ons, then select the corresponding response i   | n the RoHS Declaration above and choose all   |
| Exemption List Version   | EL-2011/534/EU   |  |   |   |   |
| Declaration Signature  |  |  |   |   |   |
| Instructions: Complete all of the required fin<br>Requester) and click on Submit Form to have  | elds on all pages of this form. Select the form returned to the Requester  | he "Accepted" on th  | e Supplier Acceptance drop-down   | . This will display the signature area. Digital   | lly sign the declaration (if required by the  |
| Supplier Digital Signature Ra  | stislav Drska  | Le   |   |   |   |

## 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.

| Homogeneous Material      | Weight | Unit of Measure | Level    | Substance  | CAS              | Exempt | Weight  | Unit of Measure |
|---------------------------|--------|-----------------|----------|--|------------------|--------|---------|-----------------|
| Die                       | 29.5   | mg              |          | Misc.  | proprietary data |        | 0.1121  | mg              |
|                           |        |                 | Supplier | Silicon (Si)                                       | 7440-21-3        |        | 29.0958 | mg              |
|                           |        |                 | Supplier | Aluminum (Al)                                      | 7429-90-5        |        | 0.2921  | mg              |
| Die Attach                | 1.8    | mg              | Supplier | Bisphenol A_Epichlorohydrin Polymer                | 25068-38-6       |        | 0.675   | mg              |
|                           |        |                 | Supplier | Ethylene Glycol                                    | 107-21-1         |        | 0.018   | mg              |
|                           |        |                 | Supplier | Sulfonium (Thiodi-4,1-phenylene)                   | 89452-37-9       |        | 0.054   | mg              |
|                           |        |                 | Supplier | Modified Silicon Dioxide (SiO2)                    | 67762-90-7       |        | 0.378   | mg              |
|                           |        |                 | Supplier | Formaldehyde Polymer                               | 9003-36-5        |        | 0.675   | mg              |
| Imaging Lens              | 17.4   | mg              | Supplier | Titanium Dioxide (TiO2)                            | 13463-67-7       |        | 0.9158  | mg              |
|                           |        |                 | Supplier | Sodium Monoxide (Na2O)                             | 1313-59-3        |        | 0.9158  | mg              |
|                           |        |                 | Supplier | Zinc Monoxide (ZnO)                                | 1314-13-2        |        | 0.9158  | mg              |
|                           |        |                 | В        | Antimony Trioxide (Sb2O3)                          | 1309-64-4        |        | 0.0917  | mg              |
|                           |        |                 | Supplier | Aluminum Trioxide (Al2O3)                          | 1344-28-1        |        | 0.9158  | mg              |
|                           |        |                 | Supplier | Potassium Monoxide (K2O)                           | 12136-45-7       |        | 0.9158  | mg              |
|                           |        |                 | Supplier | Silica Crystalline (SiO2)                          | 14808-60-7       |        | 12.7295 | mg              |
| Lid Attach                | 1.46   | mg              | Supplier | 2-phenoxy ethyl acrylate                           | 48145-04-6       |        | 0.657   | mg              |
|                           |        |                 | Supplier | Bisphenol A_Epichlorohydrin Polymer                | 25068-38-6       |        | 0.292   | mg              |
|                           |        |                 | Supplier | Epoxy Prepolymer                                   | Proprietary Data |        | 0.1825  | mg              |
|                           |        |                 | Supplier | Acrylate Oligomer                                  | Proprietary Data |        | 0.0073  | mg              |
|                           |        |                 | Supplier | Curative   | Proprietary Data |        | 0.0292  | mg              |
|                           |        |                 | Supplier | Formaldehyde Polymer                               | 9003-36-5        |        | 0.292   | mg              |
| Iold Compound-Black       | 65.83  | mg              |          | Phenolic Resin                                     | proprietary data |        | 9.8745  | mg              |
| -                         |        |                 | Supplier | Oxirane  | 39817-09-9       |        | 9.8745  | mg              |
|                           |        |                 | Supplier | 1,4-Bis(2,3-epoxypropoxy)butane                    | 2425-79-8        |        | 1.9749  | mg              |
|                           |        |                 | Supplier | Carbon Black (C)                                   | 1333-86-4        |        | 0.6583  | mg              |
|                           |        |                 | Supplier | Fused Silica (SiO2)                                | 60676-86-0       |        | 42.1312 | mg              |
|                           |        |                 | Supplier | Silica Crystalline (SiO2)                          | 14808-60-7       |        | 1.3166  | mg              |
| Solder Ball               | 35.81  | mg              | Supplier | Silver (Ag)  | 7440-22-4        |        | 1.0743  | mg              |
|                           |        |                 | Supplier | Tin (Sn)   | 7440-31-5        |        | 34.5567 | mg              |
|                           |        |                 | Supplier | Copper (Cu)  | 7440-50-8        |        | 0.179   | mg              |
| Substrate and Solder Mask | 39.07  | mg              | Supplier | Bis(3-ethyl-5-methyl-4-<br>maleimidophenyl)methane | 105391-33-1      |        | 0.4376  | mg              |

|                |      |    | Supplier | Fiber Glass (SiO2)   | 65997-17-3       | 5.0635  | mg |
|----------------|------|----|----------|--|------------------|---------|----|
|                |      |    | Supplier | Zinc (Zn)  | 7440-66-6        | 0.0586  | mg |
|                |      |    | Supplier | Inorganic Filler of Solder Mask_Talc<br>(Mg3Si4O10(OH)2)               | 14807-96-6       | 0.9103  | mg |
|                |      |    | Supplier | Cyanic acid (1-methylethylidene)di-4,1-<br>phenylene ester homopolymer | 25722-66-1       | 0.4376  | mg |
|                |      |    | Supplier | Silica Amorphous (SiO2)  | 7631-86-9        | 0.2266  | mg |
|                |      |    | Supplier | Chromium (Cr)  | 7440-47-3        | 0.0039  | mg |
|                |      |    | Supplier | Acetophenone Derivative  | Proprietary Data | 1.3635  | mg |
|                |      |    | Supplier | Carbon Black (C)   | 1333-86-4        | 0.2266  | mg |
|                |      |    | Supplier | 2,4-Diethyl-9H-thioxanthen-9-one<br>(DETX)                             | 82799-44-8       | 0.2266  | mg |
|                |      |    | Supplier | Aluminum Hydroxide (Al(OH)3)   | 21645-51-2       | 4.6884  | mg |
|                |      |    | В        | Nickel (Ni)  | 7440-02-0        | 0.5509  | mg |
|                |      |    | Supplier | Gold (Au)  | 7440-57-5        | 0.0195  | mg |
|                |      |    | Supplier | Solvent Naphtha (Solvent oil)  | 64742-94-5       | 2.731   | mg |
|                |      |    | Supplier | Formaldehyde Polymer   | 9003-36-5        | 0.4376  | mg |
|                |      |    | Supplier | Copper (Cu)  | 7440-50-8        | 14.6356 | mg |
|                |      |    | Supplier | Barium Sulfate (BaSO4)   | 7727-43-7        | 7.0521  | mg |
| Wire Bond - Au | 0.33 | mg | Supplier | Gold (Au)  | 7440-57-5        | 0.33    | mg |