|  | <b>Material Composit</b><br>© Copyright 2005. IPC, I<br>nternational and Pan-An                     | Bannockb          | urn, Illinois. A          | ll rights reserved untions. | under both              | This docume<br>level parts, t                                     | ent is a decla<br>he declaratio | ration of<br>on encom      | the substance passes all low | s within th<br>er level m | e manufactur<br>aterials for wl | er listed it<br>hich the m | em. Note<br>anufactu | e: if the i<br>irer has e | tem is an asse | embly with lowe<br>sponsibility. |
|--|---|-------------------|---------------------------|-----------------------------|-------------------------|---|---------------------------------|----------------------------|------------------------------|---------------------------|---------------------------------|----------------------------|----------------------|---------------------------|----------------|----------------------------------|
|  | IPC Web Site for Information on IPC-1752 Standard Form Tyj   http://www.ipc.org/IPC-175x Distribute |                   |                           |                             | Form Type<br>Distribute | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Mater |                                 |                            |                              |                           | als and Mfg Information         |                            |                      |                           |                |                                  |
| Supplier Informati                             | on  |                   |                           |                             |                         |   |                                 |                            |                              |                           |                                 |                            |                      |                           |                |                                  |
| Company name*                                  |   |                   | Company unique ID         |                             |                         | Unique ID Authority   |                                 |                            |                              |                           | Response Date*                  |                            |                      |                           |                |                                  |
| onsemi   |   |                   |                           |                             |                         |   |                                 |                            |                              |                           |                                 | 2023-06-08                 |                      |                           |                |                                  |
| Contact Name                                   |   |                   | Title - Contact           |                             |                         |   | Phone - Contact*                |                            |                              |                           |                                 | Email - Contact*           |                      |                           |                |                                  |
| Product-Env-Stewards                           |   |                   | Product Enviro Compliance |                             |                         | NA  |                                 |                            |                              |                           | Product-Env-Stewards@onsemi.com |                            |                      |                           |                |                                  |
| Authorized Representative*                     |   |                   | Title - Representative    |                             |                         | Phone - Representative*   |                                 |                            |                              | Email - Representative*   |                                 |                            |                      |                           |                |                                  |
| Product-Env-Stewards                           |   |                   | Product Enviro Compliance |                             |                         |   | NA                              |                            |                              |                           | Product-Env-Stewards@onsemi.com |                            |                      |                           |                |                                  |
| Requester Ite                                  | Requester Item Number Mfr Item  |                   |                           | Number Mfr Item Name        |                         |   | Effective D                     | ate Ver                    | rsion                        | Manufacturing Site        |                                 | V                          | Veight*              | τ                         | UOM            | Unit Type                        |
|  | LV84020   |                   | P-TE-L-H                  | L-H H-bridge motor driver   |                         |   | 2023-06-08                      | 3                          |                              | РНМ                       |                                 | 2                          | 0.0                  | 1                         | ng             | Each                             |
| Manufacturing Pro                              | occess Information  |                   |                           | 1                           |                         |   |                                 |                            |                              |                           |                                 |                            |                      |                           |                |                                  |
| Terminal Plating / Grid Array Material         |   |                   | erminal Base Alloy J-STE  |                             | J-STD-020 MS            | L Rating  | Peak P                          | eak Process Body Temperatu |                              | ure Max Time at Peak Ter  |                                 | Temperate                  | emperature Number    |                           | Reflow Cycle   | s                                |
| Precious metal (e.g. Ag,Au, NiPdAu) (no<br>Sn) |   |                   | U Alloy 1                 |                             | 1                       |   | 260                             |                            | С                            | 30                        | 30 seco                         |                            | onds 3               |                           |                |                                  |
| Comments                                       |   |                   |                           |                             |                         |   |                                 |                            |                              |                           |                                 |                            |                      |                           |                |                                  |
| evel 1 - maximum time                          | at peak temperature d   | uring sol         | dering is 10-3            | 0 seconds                   |                         |   |                                 |                            |                              |                           |                                 |                            |                      |                           |                |                                  |
| or more information r                          | egarding material com   | position <b>p</b> | please refer to           | page 3                      |                         |   |                                 |                            |                              |                           |                                 |                            |                      |                           |                |                                  |

| RoHS Material Composition Declaration  |  |  |   | Declaration Type *                              | Detailed  |  |  |  |  |  |  |  |
|--|--|--|---|---|---|--|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS<br>Directive 2011/65/EU  | (Pb), Mercury (Hg), Hexavalent Chror   | n: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl ), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP). |   |   |   |  |  |  |  |  |  |  |
| 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 cc<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  | on above   | Supplier Acceptance   | * Accepted                                      |   |  |  |  |  |  |  |  |
| Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.  |  |  |   |   |   |  |  |  |  |  |  |  |
| 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                       | 2.34   | mg              | Supplier | Silicon (Si)                | 7440-21-3        |        | 2.3313  | mg              |
|                           |        |                 | Supplier | Polyimide                   | Proprietary Data |        | 0.0087  | mg              |
| Die Attach                | 0.1    | mg              | Supplier | Epoxy resins                | 129915-35-1      |        | 0.0725  | mg              |
|                           |        |                 | Supplier | Acrylic resins              | Proprietary Data |        | 0.0275  | mg              |
| Mold Compound-Black       | 12.96  | mg              |          | Epoxy Phenol Resin          | proprietary data |        | 1.4256  | mg              |
|                           |        |                 | Supplier | Carbon Black (C)            | 1333-86-4        |        | 0.0259  | mg              |
|                           |        |                 | Supplier | Fused Silica (SiO2)         | 60676-86-0       |        | 10.9901 | mg              |
|                           |        |                 | Supplier | Silica Crystalline (SiO2)   | 14808-60-7       |        | 0.5184  | mg              |
| Substrate and Solder Mask | 4.4    | mg              | В        | Nickel (Ni)                 | 7440-02-0        |        | 0.3164  | mg              |
|                           |        |                 | Supplier | Gold (Au)                   | 7440-57-5        |        | 0.0682  | mg              |
|                           |        |                 | Supplier | Bismaleimide Triazine resin | Proprietary Data |        | 2.6893  | mg              |
|                           |        |                 | Supplier | Copper (Cu)                 | 7440-50-8        |        | 1.3262  | mg              |
| Wire Bond - Au            | 0.2    | mg              | Supplier | Gold (Au)                   | 7440-57-5        |        | 0.2     | mg              |