| ASSOCIATION CONNECTING<br>LECTRONICS INDUSTRIES        | , Bannockb  | urn, Illinois. A | ll rights reserved u ntions. | under both | This docum<br>level parts, t | ent is a declaration e | on of the su<br>ncompasses | bstances<br>all lower   | within the manufactu<br>r level materials for w | rer listed i<br>hich the r      | tem. Note: i<br>nanufacturer    | f the item is an as<br>r has engineering | sembly with lower responsibility. |  |
|--|---|------------------|------------------------------|------------|------------------------------|------------------------|----------------------------|-------------------------|---|---------------------------------|---------------------------------|--|-----------------------------------|--|
|  | IPC Web Site for Information on IPC-1752 Standard Form<br>http://www.ipc.org/IPC-175x Distr |                  |                              |            |                              |                        |                            |                         | als and Mfg Information                         |                                 |                                 |  |                                   |  |
| Supplier Information                                   |   |                  |                              |            |                              |                        |                            |                         |   |                                 |                                 |  |                                   |  |
| Company name* Com                                      |   |                  | Company unique ID            |            |                              | Unique ID Authority    |                            |                         |   | Response Date*                  |                                 |  |                                   |  |
| onsemi   |   |                  |                              |            |                              |                        |                            |                         |   |                                 | 2024-04-28                      |  |                                   |  |
| Contact Name Title - Contact                           |   |                  | .ct                          |            |                              | Phone - Contact*       |                            |                         |   | Email -                         | Email - Contact*                |  |                                   |  |
| Product-Env-Stewards Product Env                       |   |                  | uct Enviro Compliance        |            |                              | NA                     |                            |                         |   | Product-Env-Stewards@onsemi.com |                                 |  |                                   |  |
| Authorized Representative* Title - Repre               |   |                  | presentative                 |            | Phone - Representative*      |                        |                            | Email - Representative* |   |                                 |                                 |  |                                   |  |
| Product-Env-Stewards Product 1                         |   |                  | roduct Enviro Compliance     |            |                              | NA                     |                            |                         |   | Produc                          | Product-Env-Stewards@onsemi.com |  |                                   |  |
| Requester Item Number                                  | Mfr Item Number   |                  | ver Mfr Item Name            |            |                              | Effective Date         | Version                    | N                       | Manufacturing Site                              |                                 | Weight*                         | UOM                                      | Unit Type                         |  |
|  | HMHA28  | HMHA2801V 4SC    |                              | 4SO TR VDE |                              | 2024-04-28             |                            | L                       | LITEONFG  |                                 | 54.749                          | mg                                       | Each                              |  |
| Manufacturing Proccess Informatio                      | 'n  |                  |                              |            |                              |                        |                            |                         |   |                                 |                                 |  |                                   |  |
| Terminal Plating / Grid Array Material Terminal Base A |   | Alloy J          | J-STD-020 MSL                | . Rating   | Peak Proc                    | ess Body Te            | mperatur                   | e Max Time at Peak      | Tempera   | ture Numb                       | per of Reflow Cy                | cles                                     |                                   |  |
| Matte Tin (Sn) - annealed CU Alloy                     |   | ]                | 1                            |            | 245                          |                        | С                          | 30                      | secor   | nds 3                           |                                 |  |                                   |  |
| Comments   |   |                  |                              |            |                              |                        |                            |                         |   |                                 |                                 |  |                                   |  |
| level 1 - maximum time at peak temperature             | during sol  | dering is 10-3   | 0 seconds                    |            |                              |                        |                            |                         |   |                                 |                                 |  |                                   |  |
| For more information regarding material co             | mposition <b>j</b>  | please refer to  | page 3                       |            |                              |                        |                            |                         |   |                                 |                                 |  |                                   |  |

| RoHS Material Composition Declaration  |  |  |   | Declaration Type *                              | Detailed  |  |  |  |  |  |
|--|--|--|---|---|---|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS<br>Directive 2011/65/EU  | RoHS Definition: 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 (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Dibutyl 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>y 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 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                  | 0.267  | mg              | В        | Gallium Arsenide (AsGa)                    | 1303-00-0        |        | 0.0864  | mg              |
|                      |        |                 | Supplier | Silicon (Si)                               | 7440-21-3        |        | 0.1754  | mg              |
|                      |        |                 | Supplier | Aluminum (Al)                              | 7429-90-5        |        | 0.0052  | mg              |
| Die Attach           | 0.021  | mg              | Supplier | Silver (Ag)                                | 7440-22-4        |        | 0.0172  | mg              |
|                      |        |                 | Supplier | Dicyandiamine                              | 461-58-5         |        | 0.0002  | mg              |
|                      |        |                 | Supplier | Phenolic Resin (Novolac)                   | 9003-35-4        |        | 0.0036  | mg              |
| Lead Frame           | 13.225 | mg              | Supplier | Silver (Ag)                                | 7440-22-4        |        | 0.6784  | mg              |
|                      |        |                 | Supplier | Zinc (Zn)                                  | 7440-66-6        |        | 0.0238  | mg              |
|                      |        |                 | Supplier | Iron (Fe)                                  | 7439-89-6        |        | 0.3253  | mg              |
|                      |        |                 | Supplier | Copper (Cu)                                | 7440-50-8        |        | 12.1789 | mg              |
|                      |        |                 | Supplier | Phosphorus (P)                             | 7723-14-0        |        | 0.0185  | mg              |
| Mold Compound-White  | 31.422 | mg              | Supplier | Titanium Dioxide (TiO2)                    | 13463-67-7       |        | 7.8555  | mg              |
|                      |        |                 | В        | Brominated Bisphenol A Diglycidyl Ether    | 40039-93-8       |        | 0.9427  | mg              |
|                      |        |                 | Supplier | Ortho Cresol Novolac Resin                 | 29690-82-2       |        | 4.242   | mg              |
|                      |        |                 | В        | Antimony Trioxide (Sb2O3)                  | 1309-64-4        |        | 0.9427  | mg              |
|                      |        |                 | Supplier | Fused Silica (SiO2)                        | 60676-86-0       |        | 15.711  | mg              |
|                      |        |                 | Supplier | Phenolic Resin (Novolac)                   | 9003-35-4        |        | 1.7282  | mg              |
| lating               | 0.961  | mg              | Supplier | Tin (Sn)                                   | 7440-31-5        |        | 0.961   | mg              |
| Protective Coating   | 8.8    | mg              | Supplier | Poly(dimethylsiloxane), hydroxy terminated | 70131-67-8       |        | 4.4     | mg              |
|                      |        |                 | Supplier | Ethylbenzene                               | 100-41-4         |        | 0.88    | mg              |
|                      |        |                 | Supplier | Filler (SiO2)                              | 68909-20-6       |        | 1.672   | mg              |
|                      |        |                 | Supplier | Misc.                                      | Proprietary Data |        | 0.088   | mg              |
|                      |        |                 | Supplier | Xylene                                     | 1330-20-7        |        | 1.76    | mg              |
| Wire Bond - Au       | 0.053  | mg              | Supplier | Gold (Au)                                  | 7440-57-5        |        | 0.053   | mg              |