| ABSOCIATION CONNECTING<br>ELECTRANCE INDUSTRIES  | ockburn. Illinois. A  | Il rights reserved untions. | Inder both          | This docume<br>evel parts, th | ent is a declarat<br>he declaration of   | ion of the su | ibstances<br>s all lowe           | within the manuf<br>r level materials f | acturer lister<br>or which the  | d item. Note<br>e manufactur        | : if the item is an a<br>rer has engineering | ssembly with lower responsibility. |  |
|--|---|-----------------------------|---------------------|-------------------------------|--|---------------|-----------------------------------|---|---------------------------------|-------------------------------------|--|------------------------------------|--|
|  | IPC Web Site for Information on IPC-1752 Standard Form Typ   http://www.ipc.org/IPC-175x Distribute |                             |                     |                               | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform |               |                                   |   |                                 | Mfg Inform                          | ation  |                                    |  |
| Supplier Information                             |   |                             |                     |                               |  |               |                                   |   |                                 |                                     |  |                                    |  |
| ompany name* Company unique ID                   |   |                             | Unique ID Authority |                               |  |               | Respo                             | Response Date*                          |                                 |                                     |  |                                    |  |
| onsemi   | á 🛛   |                             |                     |                               |  |               |                                   |   | 2025-                           | 2025-06-04                          |  |                                    |  |
| Contact Name                                     | Title - Contact   |                             |                     | 1                             | Phone - Contact*   |               |                                   |   | Emai                            | Email - Contact*                    |  |                                    |  |
| Product-Env-Stewards                             | -Stewards Product Enviro Compliance   |                             |                     | NA                            |  |               |                                   | Prod                                    | Product-Env-Stewards@onsemi.com |                                     |  |                                    |  |
| uthorized Representative* Title - Representative |   |                             |                     | Phone - Representative*       |  |               |                                   | Emai                                    | Email - Representative*         |                                     |  |                                    |  |
| Product-Env-Stewards Product Enviro Compliance   |   |                             |                     | NA                            |  |               |                                   | Prod                                    | Product-Env-Stewards@onsemi.com |                                     |  |                                    |  |
| Requester Item Number Mfr                        | Item Number   | Mfr Item Name               |                     |                               | Effective Date   | Version       | 1                                 | Manufacturing Site                      |                                 | Weight*                             | UOM  | Unit Type                          |  |
| MM   | MSZ4689ET1G ZENER REGU  |                             | LATOR SOD123        |                               | 2025-06-04   |               | (                                 | CN1                                     |                                 | 11.525                              | mg   | Each                               |  |
| Manufacturing Proccess Information               |   |                             |                     |                               | ·  |               |                                   |   |                                 |                                     | · .  |                                    |  |
| Terminal Plating / Grid Array Material           | Terminal Base Alloy J-  |                             | J-STD-020 MSL       | Rating                        | Peak Process Bo  |               | Body Temperature Max Time at Peak |   | Peak Tempe                      | Temperature Number of Reflow Cycles |  | cles                               |  |
| Matte Tin (Sn) - annealed CU Alloy               |   |                             | 1                   |                               | 260  |               | С                                 | 30                                      | sec                             | onds 3                              |  |                                    |  |
| Comments   |   |                             |                     |                               |  |               |                                   |   |                                 |                                     |  |                                    |  |
| evel 1 - maximum time at peak temperature durin  | g soldering is 10-3   | 0 seconds                   |                     |                               |  |               |                                   |   |                                 |                                     |  |                                    |  |
| or more information regarding material composi   | ion 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   | HS 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 b), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl thalate (BBP), Dibutyl phthalate (DBP), Disobutyl 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                  | 0.88   | mg              | Supplier | Silicon (Si)   | 7440-21-3   |        | 0.88   | mg              |
| Lead Frame           | 3.19   | mg              | В        | Nickel (Ni)  | 7440-02-0   |        | 1.158  | mg              |
|                      |        |                 | Supplier | Iron (Fe)  | 7439-89-6   |        | 1.6014 | mg              |
|                      |        |                 | Supplier | Copper (Cu)  | 7440-50-8   |        | 0.4306 | mg              |
| Mold Compound-Black  | 6.51   | mg              | Supplier | Boron zinc hydroxide oxide                             | 138265-88-0 |        | 0.1953 | mg              |
|                      |        |                 | Supplier | Zinc Monoxide (ZnO)                                    | 1314-13-2   |        | 0.0325 | mg              |
|                      |        |                 | Supplier | 2,4,6-triamino-s-triazincompd.withs-<br>triazine-triol | 37640-57-6  |        | 0.1953 | mg              |
|                      |        |                 | Supplier | Silica Amorphous (SiO2)                                | 7631-86-9   |        | 5.208  | mg              |
|                      |        |                 | Supplier | Carbon Black (C)                                       | 1333-86-4   |        | 0.0651 | mg              |
|                      |        |                 | Supplier | Ortho-Cresol Novolac Resin                             | 29690-82-2  |        | 0.5208 | mg              |
|                      |        |                 | Supplier | Phenolic Resin (Novolac)                               | 9003-35-4   |        | 0.2929 | mg              |
| Plating              | 0.8    | mg              | Supplier | Tin (Sn)   | 7440-31-5   |        | 0.8    | mg              |
| Wire Bond            | 0.145  | mg              | Supplier | Palladium (Pd)   | 7440-05-3   |        | 0.0019 | mg              |
|                      |        |                 | Supplier | Copper (Cu)  | 7440-50-8   |        | 0.1431 | mg              |