| IPC ASSOCIATION CON-        | © Copyright 2005.                            | Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions. |                           |   | der both                 | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower 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  Form Typ Distribute   |                           |   |                          | * Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater  |  |         |                         |                    | ials and Mfg Information            |         |      |           |
| upplier Inf                 | formation                                    |   |                           |   |                          |   | ·  |         |                         |                    |                                     |         |      |           |
| Company name*               |  |   | Company ur                | Company unique ID                       |                          |   | Unique ID Authority                            |         |                         |                    | Response Date*                      |         |      |           |
| nsemi                       |  |   |                           |   |                          |   |  |         |                         |                    | 2025-05-13                          |         |      |           |
| Contact Name                | ,  | Title - Contact   |                           |   | I                        | Phone - Contact*  |  |         |                         | Email - Contact*   |                                     |         |      |           |
| Product-Env-S               | Stewards                                     |   | Product Enviro Compliance |   |                          | ]   | NA   |         |                         |                    | Product-Env-Stewards@onsemi.com     |         |      |           |
| uthorized Re                | epresentative*                               | Title - Representative  |                           |   | I                        | Phone - Representative*   |  |         | Email - Representative* |                    |                                     |         |      |           |
| Product-Env-Stewards        |  |   | Product Enviro Compliance |   |                          | 1   | NA   |         |                         |                    | Product-Env-Stewards@onsemi.com     |         |      |           |
| Red                         | quester Item Number                          | Mfr Item  | Number                    | Mfr Item Name                           |                          |   | Effective Date                                 | Version | N                       | Manufacturing Site |                                     | /eight* | UOM  | Unit Type |
|                             |  | MMSZ5228BT1G ZEN SOE  |                           | ZEN SOD123 REC                          | ZEN SOD123 REG 0.5W 3.9V |   | 2025-05-13 CN1                                 |         | CN1                     | 1                  | 1.525                               | mg      | Each |           |
| Ianufactur                  | ring Proccess Informa                        | ation   |                           |   |                          |   |  |         |                         |                    |                                     |         |      |           |
| Terr                        | Terminal Plating / Grid Array Material Termi |   |                           | erminal Base Alloy J-STD-020 MSL Rating |                          |   | Peak Process Body Temperature Max Time at Peak |         |                         |                    | Temperature Number of Reflow Cycles |         |      |           |
| Matte Tin (Sn) - annealed C |  |   | CU Alloy 1                |   |                          |   | 260 C 30                                       |         |                         | 30                 | seconds 3                           |         |      |           |
| omments                     |  |   |                           |   |                          |   |  |         |                         |                    |                                     |         |      |           |
| vel 1 - maxim               | num time at peak temperat                    | ture during sol   | dering is 10              | 30 seconds                              |                          |   |  |         |                         |                    |                                     |         |      |           |
| or more infor               | rmation regarding materia                    | l composition   | please refer t            | o page 3                                |                          |   |  |         |                         |                    |                                     |         |      |           |

| RoHS Material Composition Declaration   |  |   | Declaration Type *                           | Detail                | ed                                  |  |  |  |  |  |  |
|---|--|---|--|-----------------------|-------------------------------------|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS 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), Diisobutyl phthalate (DIBP).   |  |   |  |                       |                                     |  |  |  |  |  |  |
| Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier have not independently verified and or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply. |  |   |  |                       |                                     |  |  |  |  |  |  |
| 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 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   |  |   |  |                       |                                     |  |  |  |  |  |  |
|   |  |   |  |                       |                                     |  |  |  |  |  |  |
|   |  | 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                  | 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   |                 | 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-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              |