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|  <b>Material Composition Declaration</b><br>© Copyright 2005, IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions. |                                        | 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. |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |
| 1752-21.1                                                                                                                                                                                                                                                      |                                        | IPC Web Site for Information on IPC-1752 Standard<br><a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>                                                                                                                                      |                                                     |  | Form Type *<br>Distribute     |                                      | Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information |                                                                   |                         |           |
| <b>Supplier Information</b>                                                                                                                                                                                                                                    |                                        |                                                                                                                                                                                                                                                                 |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |
| Company name*<br><b>onsemi</b>                                                                                                                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                 | Company unique ID                                   |  |                               | Unique ID Authority                  |                                                                                         | Response Date*<br><b>2025-07-05</b>                               |                         |           |
| Contact Name<br><b>Product-Env-Stewards</b>                                                                                                                                                                                                                    |                                        |                                                                                                                                                                                                                                                                 | Title - Contact<br>Product Enviro Compliance        |  |                               | Phone - Contact*<br><b>NA</b>        |                                                                                         | Email - Contact*<br><b>Product-Env-Stewards@onsemi.com</b>        |                         |           |
| Authorized Representative*<br><b>Product-Env-Stewards</b>                                                                                                                                                                                                      |                                        |                                                                                                                                                                                                                                                                 | Title - Representative<br>Product Enviro Compliance |  |                               | Phone - Representative*<br><b>NA</b> |                                                                                         | Email - Representative*<br><b>Product-Env-Stewards@onsemi.com</b> |                         |           |
|                                                                                                                                                                                                                                                                | Requester Item Number                  | Mfr Item Number                                                                                                                                                                                                                                                 | Mfr Item Name                                       |  | Effective Date                | Version                              | Manufacturing Site                                                                      | Weight*                                                           | UOM                     | Unit Type |
|                                                                                                                                                                                                                                                                |                                        | FSB50450AS                                                                                                                                                                                                                                                      | SPM5 V2 INV 500V 2.4ohm                             |  | 2025-07-05                    |                                      | CPA                                                                                     | 3355.2                                                            | mg                      | Each      |
| <b>Manufacturing Process Information</b>                                                                                                                                                                                                                       |                                        |                                                                                                                                                                                                                                                                 |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |
|                                                                                                                                                                                                                                                                | Terminal Plating / Grid Array Material | Terminal Base Alloy                                                                                                                                                                                                                                             | J-STD-020 MSL Rating                                |  | Peak Process Body Temperature |                                      | Max Time at Peak Temperature                                                            |                                                                   | Number of Reflow Cycles |           |
|                                                                                                                                                                                                                                                                | <b>Matte Tin (Sn) - annealed</b>       | <b>CU Alloy</b>                                                                                                                                                                                                                                                 | <b>3</b>                                            |  | <b>260</b> C                  |                                      | <b>30</b> seconds                                                                       |                                                                   | <b>3</b>                |           |
| Comments                                                                                                                                                                                                                                                       |                                        |                                                                                                                                                                                                                                                                 |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |
| <b>ATTENTION: MSL 3 Rated item requires Bake and Dry Pack (after electrical test)</b>                                                                                                                                                                          |                                        |                                                                                                                                                                                                                                                                 |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |
| <b>For more information regarding material composition please refer to page 3</b>                                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                 |                                                     |  |                               |                                      |                                                                                         |                                                                   |                         |           |

| RoHS Material Composition Declaration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   | Declaration Type *                                                                | Detailed                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|
| 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). |                                                                                   |                                |
| <p>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 in excess 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 it provides in this form using appropriate methods to ensure its accuracy and that such 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 enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source 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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                |
| RoHS Declaration *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions                                                                                                                                                                                                                                                                                                                   |                                                                                   | Supplier Acceptance * Accepted |
| <b>Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                |
| Exemption List Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EL-2011/534/EU                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                |
| Declaration Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                |
| <b>Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                |
| Supplier Digital Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rastislav Drska                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                |

| Homogeneous Material Composition Declaration for Electronic Products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                 |          |                            |            |        |          |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|----------|----------------------------|------------|--------|----------|-----------------|
| <p>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.</p> <p>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).</p> |        |                 |          |                            |            |        |          |                 |
| Homogeneous Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Weight | Unit of Measure | Level    | Substance                  | CAS        | Exempt | Weight   | Unit of Measure |
| Die                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24.0   | mg              | Supplier | Silicon (Si)               | 7440-21-3  |        | 24       | mg              |
| Die Attach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.0    | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 4.56     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Phenolic Resin-2           | 54208-63-8 |        | 1.44     | mg              |
| Die Attach Solder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.8    | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 0.12     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | A        | Lead (Pb)                  | 7439-92-1  | 7a     | 4.44     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Tin (Sn)                   | 7440-31-5  |        | 0.24     | mg              |
| Lead Frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1370.0 | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 20.002   | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | B        | Nickel (Ni)                | 7440-02-0  |        | 30.003   | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Iron (Fe)                  | 7439-89-6  |        | 1.37     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Copper (Cu)                | 7440-50-8  |        | 1318.214 | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Phosphorus (P)             | 7723-14-0  |        | 0.411    | mg              |
| Mold Compound-Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1890.0 | mg              | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 |        | 132.3    | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Carbon Black (C)           | 1333-86-4  |        | 18.9     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Fused Silica (SiO2)        | 60676-86-0 |        | 661.5    | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Phenolic Resin (Novolac)   | 9003-35-4  |        | 132.3    | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Silica Crystalline (SiO2)  | 14808-60-7 |        | 945      | mg              |
| Plating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 56.4   | mg              | Supplier | Tin (Sn)                   | 7440-31-5  |        | 56.4     | mg              |
| Wire Bond - Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.0    | mg              | Supplier | Palladium (Pd)             | 7440-05-3  |        | 0.08     | mg              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                 | Supplier | Copper (Cu)                | 7440-50-8  |        | 3.92     | mg              |