| © Copyright 2005. IPC.                                     | © Convright 2005 IPC Bannockhurn Illinois All rights reserved under 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. |           |                         |                    |                                 |                       |      |           |  |
|--|--|---------------------------|------------------------|-----------------|-------------------------|---|-----------|-------------------------|--------------------|---------------------------------|-----------------------|------|-----------|--|
|  | IPC Web Site for Information on IPC-1752 Standard Form T<br>http://www.ipc.org/IPC-175x Distribution |                           |                        |                 | *                       | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials a   |           |                         |                    |                                 | s and Mfg Information |      |           |  |
| Supplier Information                                       |  |                           |                        |                 |                         |   |           |                         |                    |                                 |                       |      |           |  |
| Company name* Comp   |  |                           | Company unique ID      |                 |                         | Unique ID Authority   |           |                         |                    | Response Date*                  |                       |      |           |  |
| onsemi   |  |                           |                        |                 |                         |   |           | 2023-06-07              |                    |                                 |                       |      |           |  |
| Contact Name Title - Contact                               |  |                           | et                     |                 | Phone - Contact*        |   |           |                         | Email - Contact*   |                                 |                       |      |           |  |
| Product-Env-Stewards Product Envir                         |  |                           | Enviro Compliance      |                 |                         | NA  |           |                         |                    | Product-Env-Stewards@onsemi.com |                       |      |           |  |
| Authorized Representative* Title - Representative          |  |                           | entative               |                 | Phone - Representative* |   |           | Email - Representative* |                    |                                 |                       |      |           |  |
| Product-Env-Stewards Product En                            |  |                           | luct Enviro Compliance |                 |                         | NA  |           |                         |                    | Product-Env-Stewards@onsemi.com |                       |      |           |  |
| Requester Item Number                                      | Mfr Item Number  |                           | Mfr Item Name          |                 |                         | Effective Date  | Version   | N                       | Manufacturing Site |                                 | Weight*               | UOM  | Unit Type |  |
|  | NSPM513  | PM5131MUTBG 13.5VRWM Unic |                        | lirectional TVS |                         | 2023-06-07 MY1  |           | ſY1                     |                    | 5.52                            | mg                    | Each |           |  |
| Manufacturing Proccess Informatio                          | 'n   |                           | •                      |                 |                         |   |           |                         |                    |                                 |                       |      | ·         |  |
| Terminal Plating / Grid Array Material Terminal Base Alloy |  | Alloy J                   | J-STD-020 MSI          | L Rating        | Peak Proc               | ess Body Ter  | mperature | e Max Time at Peak      | Temperat           | ture Numb                       | per of Reflow Cyd     | eles |           |  |
| Matte Tin (Sn) - annealed CU Alloy                         |  |                           | 1                      |                 | 260                     |   | С         | 30                      | secon              | ids 3                           |                       |      |           |  |
| Comments   |  |                           |                        |                 |                         |   |           |                         |                    |                                 |                       |      |           |  |
| level 1 - maximum time at peak temperature                 | during sold  | lering is 10-3            | 0 seconds              |                 |                         |   |           |                         |                    |                                 |                       |      |           |  |
| for more information regarding material co                 | mposition p  | lease 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 co<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                  | 0.49   | mg              | Supplier | Silicon (Si)             | 7440-21-3        |        | 0.49   | mg              |
| Die Attach           | 0.2    | mg              |          | Epoxy resin              | proprietary data |        | 0.03   | mg              |
|                      |        |                 | Supplier | Silver (Ag)              | 7440-22-4        |        | 0.16   | mg              |
|                      |        |                 | Supplier | Bismaleimide             | 13676-54-5       |        | 0.01   | mg              |
| Lead Frame           | 2.13   | mg              | Supplier | Silver (Ag)              | 7440-22-4        |        | 0.0213 | mg              |
|                      |        |                 | Supplier | Tin (Sn)                 | 7440-31-5        |        | 0.0053 | mg              |
|                      |        |                 | Supplier | Zinc (Zn)                | 7440-66-6        |        | 0.0047 | mg              |
|                      |        |                 | Supplier | Chromium (Cr)            | 7440-47-3        |        | 0.0053 | mg              |
|                      |        |                 | Supplier | Copper (Cu)              | 7440-50-8        |        | 2.0934 | mg              |
| Mold Compound-Black  | 2.55   | mg              |          | Epoxy resin              | proprietary data |        | 0.1198 | mg              |
|                      |        |                 | Supplier | Silica Amorphous (SiO2)  | 7631-86-9        |        | 0.255  | mg              |
|                      |        |                 | Supplier | Carbon Black (C)         | 1333-86-4        |        | 0.0026 | mg              |
|                      |        |                 | Supplier | Fused Silica (SiO2)      | 60676-86-0       |        | 2.0527 | mg              |
|                      |        |                 | Supplier | Phenolic Resin (Novolac) | 9003-35-4        |        | 0.1198 | mg              |
| Plating              | 0.11   | mg              | Supplier | Tin (Sn)                 | 7440-31-5        |        | 0.11   | mg              |
| Wire Bond            | 0.04   | mg              | Supplier | Palladium (Pd)           | 7440-05-3        |        | 0.0004 | mg              |
|                      |        |                 | Supplier | Copper (Cu)              | 7440-50-8        |        | 0.0396 | mg              |

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).