| ASSOCIATION CONNECTING<br>ELECTRONICS INDUSTRIES®<br>MOUSTRIES®<br>International and Pa | PC. Bannockl   | ourn, Illinois, A          | Il rights reserved untions. | under both          | This docume<br>level parts, t   | ent is a declaration en declaration | on of the su | bstances v<br>all lower | vithin the manufactu<br>level materials for v | urer listed which the           | item. Note:<br>nanufacture      | if the item is an as<br>er has engineering | sembly with low responsibility. |  |
|---|--|----------------------------|-----------------------------|---------------------|---|---|--------------|-------------------------|---|---------------------------------|---------------------------------|--|---------------------------------|--|
|   | 21.1 IPC Web Site for Information on IPC-1752 Standard Form Distri-<br>http://www.ipc.org/IPC-175x Distri- |                            |                             |                     | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information |   |              |                         |   | ation                           |                                 |  |                                 |  |
| upplier Information   |  |                            |                             |                     |   |   |              |                         |   |                                 |                                 |  |                                 |  |
| Company name* Company   |  |                            | pany unique ID              |                     |   | Unique ID Authority   |              |                         |   | Respon                          | Response Date*                  |  |                                 |  |
| nsemi   |  |                            |                             |                     |   |   |              | 2024-04-24              |   |                                 |                                 |  |                                 |  |
| Contact Name  | tact Name Title - Contact  |                            |                             |                     | Phone - Contact*  |   |              |                         | Email ·                                       | Email - Contact*                |                                 |  |                                 |  |
| Product-Env-Stewards Product Enviro   |  |                            | iro Compliance              |                     | NA  |   |              |                         | Produ   | Product-Env-Stewards@onsemi.com |                                 |  |                                 |  |
| Authorized Representative* Title - Representative                                       |  |                            | entative                    |                     | Phone - Representative*   |   |              | Email ·                 | Email - Representative*                       |                                 |                                 |  |                                 |  |
| Product-Env-Stewards Product En   |  |                            | luct Enviro Compliance      |                     |   | NA  |              |                         |   | Produ                           | Product-Env-Stewards@onsemi.com |  |                                 |  |
| Requester Item Number   | Mfr Iten   | n Number                   | Mfr Item Name               |                     |   | Effective Date  | Version      | М                       | Ianufacturing Site                            |                                 | Weight*                         | UOM  | Unit Type                       |  |
|   | MMUN   | MMUN2238LT1G SS SOT23 BR X |                             | STR NPN 50V         |   | 2024-04-24  |              | C                       | CN1   |                                 | 8.02                            | mg   | Each                            |  |
| Ianufacturing Proccess Informa  | tion   |                            |                             |                     |   |   |              | ·                       |   |                                 |                                 |  |                                 |  |
| Terminal Plating / Grid Array M   | aterial  | rial Terminal Base All     |                             | J-STD-020 MSL Ratin |   | Peak Process Body Temperate   |              | emperature              | ure Max Time at Peak Tempe                    |                                 | ture Num                        | nber of Reflow Cyc                         | les                             |  |
| Matte Tin (Sn) - annealed CU Allo   |  | CU Alloy                   | 1                           |                     |   | <b>260</b> C  |              | С                       | 30 seco                                       |                                 | seconds 3                       |  |                                 |  |
| omments   |  |                            |                             |                     |   |   |              |                         |   |                                 |                                 |  |                                 |  |
| vel 1 - maximum time at peak temperat   | ure during so  | ldering is 10-3            | 0 seconds                   |                     |   |   |              |                         |   |                                 |                                 |  |                                 |  |
| or more information regarding material  | composition  | please refer to            | page 3                      |                     |   |   |              |                         |   |                                 |                                 |  |                                 |  |

| RoHS Material Composition Declaration  |  |  |   | Declaration Type *                              | Detailed  |  |  |  |  |  |  |
|--|--|--|---|---|---|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS<br>Directive 2011/65/EU  | RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), 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  | ances per the definitio  | 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.

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

| Homogeneous Material | Weight | Unit of Measure | Level    | Substance                    | CAS        | Exempt | Weight | Unit of Measure |
|----------------------|--------|-----------------|----------|------------------------------|------------|--------|--------|-----------------|
| Die                  | 0.05   | mg              | Supplier | Silicon (Si)                 | 7440-21-3  |        | 0.05   | mg              |
| Lead Frame           | 2.92   | mg              | В        | Nickel (Ni)                  | 7440-02-0  |        | 1.06   | mg              |
|                      |        |                 | Supplier | Iron (Fe)                    | 7439-89-6  |        | 1.4658 | mg              |
|                      |        |                 | Supplier | Copper (Cu)                  | 7440-50-8  |        | 0.3942 | mg              |
| Mold Compound-Black  | 4.9    | mg              | Supplier | Ortho Cresol Novolac Resin   | 29690-82-2 |        | 0.49   | mg              |
|                      |        |                 | Supplier | Carbon Black (C)             | 1333-86-4  |        | 0.0245 | mg              |
|                      |        |                 | Supplier | Aluminum Hydroxide (Al(OH)3) | 21645-51-2 |        | 0.7105 | mg              |
|                      |        |                 | Supplier | Fused Silica (SiO2)          | 60676-86-0 |        | 3.185  | mg              |
|                      |        |                 | Supplier | Phenolic Resin (Novolac)     | 9003-35-4  |        | 0.49   | mg              |
| Plating              | 0.14   | mg              | Supplier | Tin (Sn)                     | 7440-31-5  |        | 0.14   | mg              |
| Wire Bond            | 0.01   | mg              | Supplier | Palladium (Pd)               | 7440-05-3  |        | 0.0001 | mg              |
|                      |        |                 | Supplier | Copper (Cu)                  | 7440-50-8  |        | 0.0099 | mg              |