| ASOCIATION CONNECTING<br>LECTRONICS INDUSTRIES® INCLUSTRIES® | C. Bannockł  | ourn. Illinois. A | Il rights reserved untions. | under both           | This docume<br>level parts, t                                     | ent is a declarat<br>he declaration e | on of the suncompasse      | ubstances<br>s all lowe | within the n<br>r level mater | nanufacture<br>rials for wh     | er listed item<br>ich the man       | . Note: if<br>ufacturer | f the item is an as<br>has engineering | sembly with lowe<br>responsibility. |
|--|--|-------------------|-----------------------------|----------------------|---|---------------------------------------|----------------------------|-------------------------|-------------------------------|---------------------------------|-------------------------------------|-------------------------|--|-------------------------------------|
|  | IPC Web Site for Information on IPC-1752 Standard Form   http://www.ipc.org/IPC-175x Distril |                   |                             |                      | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Mater |                                       |                            |                         |                               | ous Materia                     | als and Mfg Information             |                         |  |                                     |
| Supplier Information   |  |                   |                             |                      |   |                                       |                            |                         |                               |                                 |                                     |                         |  |                                     |
| Company name*  |  |                   | Company unique ID           |                      |   | Unique ID Authority                   |                            |                         |                               |                                 | Response Date*                      |                         |  |                                     |
| onsemi   |  |                   |                             |                      |   |                                       |                            |                         |                               |                                 | 2024-05-21                          |                         |  |                                     |
| Contact Name Title - Contact                                 |  |                   |                             |                      | Phone - Contact*  |                                       |                            |                         |                               |                                 | Email - Contact*                    |                         |  |                                     |
| Product-Env-Stewards Product En                              |  |                   | et Enviro Compliance        |                      |   | NA                                    |                            |                         |                               | Product-Env-Stewards@onsemi.com |                                     |                         |  |                                     |
| Authorized Representative* Title - Repre                     |  |                   | esentative                  |                      |   | Phone - Representative*               |                            |                         |                               | Email - Representative*         |                                     |                         |  |                                     |
| Product-Env-Stewards Produ                                   |  |                   | Product Enviro Compliance   |                      |   | NA                                    |                            |                         |                               | Product-Env-Stewards@onsemi.com |                                     |                         |  |                                     |
| Requester Item Number  | Mfr Item   | n Number          | Mfr Item Name               |                      |   | Effective Date                        | Version                    | I                       | Manufacturing Site            |                                 | We                                  | ight*                   | UOM                                    | Unit Type                           |
|  | MM74H  | MM74HC164M 8-BIT  |                             | B-BIT SIPO SHIFT REG |   | 2024-05-21                            |                            | 1                       | PH1                           |                                 | 155                                 | .905                    | mg                                     | Each                                |
| Manufacturing Proccess Informat                              | ion  |                   |                             |                      |   |                                       |                            |                         |                               |                                 |                                     |                         |  |                                     |
| Terminal Plating / Grid Array Ma                             | g / Grid Array Material Terminal Base A  |                   | Alloy                       | J-STD-020 MSL Rating |   | Peak Proc                             | Peak Process Body Temperat |                         | ure Max Time at Peak T        |                                 | Temperature Number of Reflow Cycles |                         | eles                                   |                                     |
| Matte Tin (Sn) - annealed CU Alloy                           |  |                   | 1                           |                      | 260   |                                       | С                          | 30                      |                               | seconds                         | 3                                   |                         |  |                                     |
| Comments   |  |                   |                             |                      |   |                                       |                            |                         |                               |                                 |                                     |                         |  |                                     |
| evel 1 - maximum time at peak temperatu                      | re during so   | Idering 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), Diisobutyl phthalate (DIBP). |  |   |   |   |  |  |  |  |  |  |  |
| cadmium, hexavalentchromium, polybrominate<br>contains a RoHS restricted substance inexcess<br>encompass all such components. Supplier certif<br>as of the date that Supplier completes this form<br>Company acknowledges that Supplier may hav<br>independently verified information provided by<br>certification in this paragraph. If the Company a | ed biphenyls and/or polybrominated dip<br>of an applicable quantity limit, please ir<br>ies that it gathered the information it pro-<br>.Supplier acknowledges that Company<br>e relied on informationprovided by othe<br>y others, Supplier agrees that, at a minin<br>and the Supplier enter into a written agre<br>pource of the Supplier's liability and the  | henyl ethers (each a "<br>ndicate below which, i<br>ovides in this form us<br>will rely on this certifiers<br>in completing this<br>num, itssuppliers have<br>eement with respect to<br>Company's remedies | RoHS restricted substance") in exce<br>if any, RoHS exemption you believe<br>ing appropriate methods to ensure if<br>ication in determining the complian<br>form, and that Supplier may not have<br>e provided certifications regarding the<br>to the identified part, the terms and cc<br>for issues that arise regarding inform | ce of its products with European Union membe    | ove. If a homogeneous material within the part<br>er level components, the declaration shall<br>l correct to the best of its knowledge and belief,<br>r state laws that implement the RoHS Directive.<br>wever, in situations where Supplier has not<br>tions are at least as comprehensive as the<br>anty rights and/or remedies provided as part of |  |  |  |  |  |  |  |
| RoHS Declaration * 1 - Item(s)   | does not contain RoHS restricted substa   | on above   | Supplier Acceptance   | * Accepted                                      |   |  |  |  |  |  |  |  |
| Exemption: If the declared item does not con applicable exemptions.  | ntain RoHS restricted substances per  | the definition above   | except for defined RoHS exempti   | ons, then select the corresponding response i   | n the RoHS Declaration above and choose all   |  |  |  |  |  |  |  |
| Exemption List Version   | EL-2011/534/EU  |  |   |   |   |  |  |  |  |  |  |  |
| Declaration Signature  |   |  |   |   |   |  |  |  |  |  |  |  |
| Instructions: Complete all of the required fin<br>Requester) and click on Submit Form to have  | elds on all pages of this form. Select the form returned to the Requester   | he "Accepted" on th  | e Supplier Acceptance drop-down   | . This will display the signature area. Digital | lly sign the declaration (if required by the  |  |  |  |  |  |  |  |
| Supplier Digital Signature Ra  | stislav Drska   | Le   |   |   |   |  |  |  |  |  |  |  |

## Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

| Homogeneous Material | Weight | Unit of Measure | Level    | Substance                  | CAS        | Exempt | Weight | Unit of Measure |
|----------------------|--------|-----------------|----------|----------------------------|------------|--------|--------|-----------------|
| Die                  | 3.63   | mg              | Supplier | Silicon (Si)               | 7440-21-3  |        | 3.63   | mg              |
| Die Attach           | 0.367  | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 0.2881 | mg              |
|                      |        |                 | Supplier | Phenolic Resin-2           | 54208-63-8 |        | 0.0789 | mg              |
| Lead Frame 68.       | 68.71  | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 0.015  | mg              |
|                      |        |                 | Supplier | Zinc (Zn)                  | 7440-66-6  |        | 0.086  | mg              |
|                      |        |                 | Supplier | Iron (Fe)                  | 7439-89-6  |        | 1.614  | mg              |
|                      |        |                 | Supplier | Copper (Cu)                | 7440-50-8  |        | 66.939 | mg              |
|                      |        |                 | Supplier | Phosphorus (P)             | 7723-14-0  |        | 0.056  | mg              |
| Mold Compound-Black  | 81.974 | mg              | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 |        | 16.395 | mg              |
|                      |        |                 | Supplier | Carbon Black (C)           | 1333-86-4  |        | 0.82   | mg              |
|                      |        |                 | Supplier | Fused Silica (SiO2)        | 60676-86-0 |        | 64.759 | mg              |
| Plating              | 0.944  | mg              | Supplier | Palladium (Pd)             | 7440-05-3  |        | 0.034  | mg              |
|                      |        |                 | В        | Nickel (Ni)                | 7440-02-0  |        | 0.891  | mg              |
|                      |        |                 | Supplier | Gold (Au)                  | 7440-57-5  |        | 0.019  | mg              |
| Wire Bond - Au       | 0.28   | mg              | Supplier | Gold (Au)                  | 7440-57-5  |        | 0.28   | 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).