|                           | Material Compo<br>© Copyright 2005. II<br>international and Pan                                      | PC, Bannockb | ourn, Illinois. A               | All rights reserved un<br>ntions. | nder both  | This docume<br>level parts, t | ent is a declaration       | tion of the                  | he substances<br>asses all low | within the<br>er level mate | manufactur<br>erials for wh     | er listed it<br>hich the m      | em. Note: i<br>anufacture | if the item is an as<br>r has engineering | ssembly with low responsibility. |
|---------------------------|--|--------------|---------------------------------|-----------------------------------|--|-------------------------------|----------------------------|------------------------------|--------------------------------|-----------------------------|---------------------------------|---------------------------------|---------------------------|---|----------------------------------|
| 752-21.1                  | IPC Web Site for Information on IPC-1752 Standard Form Typ<br>http://www.ipc.org/IPC-175x Distribute |              |                                 |                                   | * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materi |                               |                            |                              |                                | ous Materia                 | als and Mfg Information         |                                 |                           |   |                                  |
| upplier                   | r Information  |              |                                 |                                   |  |                               |                            |                              |                                |                             |                                 |                                 |                           |   |                                  |
| Company name* Con         |  |              |                                 | Company unique ID                 |  |                               | Unique ID Authority        |                              |                                |                             |                                 | Response Date*                  |                           |   |                                  |
| nsemi                     |  |              |                                 |                                   |  |                               |                            |                              |                                |                             |                                 | 2023-06-08                      |                           |   |                                  |
| Contact N                 | ame  |              | Title - Contact                 |                                   |  | ]                             | Phone - Contact*           |                              |                                |                             |                                 | Email - Contact*                |                           |   |                                  |
| Product-H                 | Env-Stewards   |              | Product Enviro Compliance       |                                   |  |                               | NA                         |                              |                                |                             |                                 | Product-Env-Stewards@onsemi.com |                           |   |                                  |
| uthorize                  | d Representative*  |              | Title - Representative          |                                   |  | ]                             | Phone - Representative*    |                              |                                |                             | Email - Representative*         |                                 |                           |   |                                  |
| Product-Env-Stewards      |  |              | Product Enviro Compliance       |                                   |  |                               | NA                         |                              |                                |                             | Product-Env-Stewards@onsemi.com |                                 |                           |   |                                  |
|                           | Requester Item Number Mfr Item   QSE113 QSE113   |              | Number Mfr Item Name            |                                   |  |                               | Effective Date             | e Version Manufacturing Site |                                | ing Site                    | v                               | Veight*                         | UOM                       | Unit Type                                 |                                  |
|                           |  |              | E3R0                            | BRO PHOTOTR S-LOOK T&R            |  |                               | 2023-06-08 CP6             |                              |                                | 144.017                     |                                 | mg                              | Each                      |   |                                  |
| Ianufa                    | cturing Proccess Informat  | tion         |                                 |                                   |  |                               |                            | -                            |                                |                             |                                 |                                 |                           |   |                                  |
|                           | Terminal Plating / Grid Array Material   |              | Ferminal Base Alloy J-STD-020 M |                                   | -STD-020 MS  | L Rating                      | Peak Process Body Temperat |                              | ure Max Time at Peak Tempe     |                             | Temperatu                       | are Numb                        | ber of Reflow Cyc         | cles                                      |                                  |
| Matte Tin (Sn) - annealed |  | U Alloy NA   |                                 |                                   | 0 C  |                               | 30 seco                    |                              | second                         | is 3                        |                                 |                                 |                           |   |                                  |
| omments                   |  |              |                                 |                                   |  |                               |                            |                              |                                |                             |                                 |                                 |                           |   |                                  |
|                           |  |              |                                 |                                   |  |                               |                            |                              |                                |                             |                                 |                                 |                           |   |                                  |
| or more i                 | 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  |  | nium (Cr6+), Polybro   | ominated Biphenyls (PBB), Polybron  | dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth |   |
| 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  | 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.

| sigma range of distribution unless otherwise noted). |        |                 |          |                            |            |        |        |                 |  |  |
|--|--------|-----------------|----------|----------------------------|------------|--------|--------|-----------------|--|--|
| Homogeneous Material                                 | Weight | Unit of Measure | Level    | Substance                  | CAS        | Exempt | Weight | Unit of Measure |  |  |
| Die  | 0.65   | mg              | Supplier | Silicon (Si)               | 7440-21-3  |        | 0.65   | mg              |  |  |
| Die Attach   | 0.611  | mg              | Supplier | Silver (Ag)                | 7440-22-4  |        | 0.427  | mg              |  |  |
|  |        |                 | Supplier | Phenolic Resin-2           | 54208-63-8 |        | 0.092  | mg              |  |  |
|  |        |                 | Supplier | Fused Silica (SiO2)        | 60676-86-0 |        | 0.092  | mg              |  |  |
| Lead Frame   | 90.816 | mg              | Supplier | Sulfur (S)                 | 7704-34-9  |        | 0.725  | mg              |  |  |
|  |        |                 | Supplier | Carbon (C)                 | 7440-44-0  |        | 3.624  | mg              |  |  |
|  |        |                 | Supplier | Silver (Ag)                | 7440-22-4  |        | 0.453  | mg              |  |  |
|  |        |                 | Supplier | Manganese (Mn)             | 7439-96-5  |        | 2.084  | mg              |  |  |
|  |        |                 | Supplier | Iron (Fe)                  | 7439-89-6  |        | 82.174 | mg              |  |  |
|  |        |                 | Supplier | Copper (Cu)                | 7440-50-8  |        | 0.216  | mg              |  |  |
|  |        |                 | Supplier | Phosphorus (P)             | 7723-14-0  |        | 1.54   | mg              |  |  |
| Mold Compound-Black                                  | 20.0   | mg              | Supplier | Phenolic Resin-2           | 54208-63-8 |        | 10     | mg              |  |  |
|  |        |                 | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 |        | 10     | mg              |  |  |
| Plating  | 29.8   | mg              | Supplier | Tin (Sn)                   | 7440-31-5  |        | 29.8   | mg              |  |  |
| Wire Bond - Au                                       | 2.14   | mg              | Supplier | Gold (Au)                  | 7440-57-5  |        | 2.14   | 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 signa range of distribution unless otherwise noted).