|                            | CONNECTING  | tion Dec<br>Bannockb<br>nerican co | <b>laration</b><br>urn, Illinois. A<br>pyright conver | ll rights reserved utions.  | under both              | This docume<br>level parts, t                                     | ent is a dec<br>he declarat | laration           | n of the subst<br>compasses all | tances v<br>1 lower       | within the manufactur<br>level materials for w | rer listed              | item. Note: if<br>manufacturer | the item is an a has engineering | ssembly with lower responsibility. |  |
|----------------------------|---|------------------------------------|---|---|-------------------------|---|-----------------------------|--------------------|---------------------------------|---------------------------|--|-------------------------|--------------------------------|----------------------------------|------------------------------------|--|
| 1752-21.1                  | IPC Web Site for Information on IPC-1752 Standard Form Type '<br>http://www.ipc.org/IPC-175x Distribute |                                    |   |   | *                       | Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materia |                             |                    |                                 |                           | ials and N                                     | als and Mfg Information |                                |                                  |                                    |  |
| Supplier                   | Information   |                                    |   |   |                         |   |                             |                    |                                 |                           |  |                         |                                |                                  |                                    |  |
| Company name* Company unic |   |                                    |   | ique ID U   |                         |   | Unique ID Authority         |                    |                                 |                           |  | Response Date*          |                                |                                  |                                    |  |
| onsemi                     |   |                                    |   |   |                         |   |                             |                    |                                 |                           |  | 2023-06-08              |                                |                                  |                                    |  |
| Contact Na                 | me  | Title - Contact                    |   |   |                         | Phone - Contact*  |                             |                    |                                 |                           | Email - Contact*                               |                         |                                |                                  |                                    |  |
| Product-E                  | nv-Stewards   | Product Enviro Compliance          |   |   |                         | NA  |                             |                    |                                 |                           | Product-Env-Stewards@onsemi.com                |                         |                                |                                  |                                    |  |
| Authorized                 | Representative*   | Title - Representative             |   |   | Phone - Representative* |   |                             |                    | Email - Representative*         |                           |  |                         |                                |                                  |                                    |  |
| Product-E                  | Product-Env-Stewards  |                                    |   | Product Enviro Compliance   |                         |   | NA                          |                    |                                 |                           | Product-Env-Stewards@onsemi.com                |                         |                                |                                  |                                    |  |
|                            | Requester Item Number   | Number Mfr Item Name               |   |   |                         | Effective Date Version Man  |                             | Manufacturing Site |                                 | Weight*                   | UOM  | Unit Type               |                                |                                  |                                    |  |
|                            | LB11696V-TLN  |                                    |   | 3PH PRE SENSOR OPEN ; Three phase pre-<br>driver with hall sensor method (open loop<br>speed control) |                         |   | 2023-06-0                   | )8                 |                                 | Pl                        | РНМ  |                         | 200.0                          | mg                               | Each                               |  |
| Manufac                    | turing Proccess Information   | ı                                  |   |   |                         |   |                             |                    |                                 |                           |  |                         |                                |                                  |                                    |  |
| ]                          | Terminal Plating / Grid Array Material Ter  |                                    |   | erminal Base Alloy J-STD-020 MSL  |                         | L Rating  | Peak Process Body Temper    |                    | perature                        | ture Max Time at Peak Tem |  | ture Numbe              | er of Reflow Cy                | cles                             |                                    |  |
| contains Bi CU Alloy       |   |                                    |   | 3   |                         | 260   |                             | С                  |                                 | 30                        | seco   | nds 3                   |                                |                                  |                                    |  |
| Comments                   |   |                                    |   |   |                         |   |                             |                    |                                 |                           |  |                         |                                |                                  |                                    |  |
| ATTENTI                    | ON: MSL 3 Rated item requires Ba  | ke and D                           | ry Pack (after  | electrical test)  |                         |   |                             |                    |                                 |                           |  |                         |                                |                                  |                                    |  |
| For more ir                | nformation regarding material com   | position p                         | 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>v 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 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.                                      |   |  |   |   |   |  |  |  |  |  |  |
| 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                  | 5.09   | mg              | Supplier | Silicon (Si)               | 7440-21-3        |        | 5.0523   | mg              |
|                      |        |                 | Supplier | Polyimide                  | Proprietary Data |        | 0.0377   | mg              |
| Die Attach           | 1.04   | mg              | Supplier | Silver (Ag)                | 7440-22-4        |        | 0.7076   | mg              |
|                      |        |                 | Supplier | Epoxy resins               | 129915-35-1      |        | 0.3008   | mg              |
|                      |        |                 | Supplier | Other Metal Oxide          | Proprietary Data |        | 0.0227   | mg              |
|                      |        |                 | В        | Antimony Pentoxide (Sb2O5) | 1314-60-9        |        | 0.0089   | mg              |
| lead Frame           | 59.75  | mg              | Supplier | Zinc (Zn)                  | 7440-66-6        |        | 0.0777   | mg              |
|                      |        |                 | Supplier | Iron (Fe)                  | 7439-89-6        |        | 1.4041   | mg              |
|                      |        |                 | Supplier | Copper (Cu)                | 7440-50-8        |        | 58.2204  | mg              |
|                      |        |                 | Supplier | Phosphorus (P)             | 7723-14-0        |        | 0.0478   | mg              |
| Iold Compound-Black  | 131.28 | mg              |          | Epoxy resin                | proprietary data |        | 13.128   | mg              |
|                      |        |                 | Supplier | Silica Amorphous (SiO2)    | 7631-86-9        |        | 9.846    | mg              |
|                      |        |                 | Supplier | Carbon Black (C)           | 1333-86-4        |        | 0.6564   | mg              |
|                      |        |                 | Supplier | Fused Silica (SiO2)        | 60676-86-0       |        | 107.6496 | mg              |
| Plating              | 2.13   | mg              | В        | Bismuth (Bi)               | 7440-69-9        |        | 0.0128   | mg              |
|                      |        |                 | Supplier | Tin (Sn)                   | 7440-31-5        |        | 2.1172   | mg              |
| Wire Bond - Au       | 0.71   | mg              | Supplier | Gold (Au)                  | 7440-57-5        |        | 0.71     | mg              |