|   | Material Composit<br>© Copyright 2005. IPC,<br>international and Pan-Ar                               | Bannockb                      | urn, Illinois. A          | ll rights reserved untions. | nder both | This docum<br>level parts, t  | ent is a declara<br>the declaration            | tion of the<br>encompass | substances<br>ses all lowe | within the manufac<br>er level materials for | turer listed which the              | item. Note:<br>manufacture      | if the item is an as<br>r 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 |                               |                           |                             | *         | <ul> <li>Declaration Class *<br/>Class 6 - RoHS Yes/No, Homogeneous Materi</li> </ul> |  |                          |                            |  | als and Mfg Information             |                                 |   |                                    |  |
| Supplier Informa                                  | tion  |                               |                           |                             |           |   |  |                          |                            |  |                                     |                                 |   |                                    |  |
| Company name*                                     |   |                               | Company unique ID         |                             |           |   | Unique ID Authority                            |                          |                            |  |                                     | Response Date*                  |   |                                    |  |
| onsemi  |   |                               |                           |                             |           |   |  |                          |                            |  | 2023-0                              | 2023-06-08                      |   |                                    |  |
| Contact Name 7                                    |   |                               | Title - Contact           |                             |           |   | Phone - Contact*                               |                          |                            |  | Email                               | Email - Contact*                |   |                                    |  |
| Product-Env-Stewards                              |   |                               | Product Enviro Compliance |                             |           |   | NA   |                          |                            |  | Produ                               | Product-Env-Stewards@onsemi.com |   |                                    |  |
| Authorized Representative* 7                      |   |                               | Title - Representative    |                             |           |   | Phone - Representative*                        |                          |                            | Email  | Email - Representative*             |                                 |   |                                    |  |
| Product-Env-Stewards                              |   |                               | Product Enviro Compliance |                             |           |   | NA   |                          |                            |  | Produ                               | Product-Env-Stewards@onsemi.com |   |                                    |  |
| Requester   | Requester Item Number Mfr Item  |                               | n Number Mfr Item Name    |                             |           |   | Effective Dat                                  | e Version                | n                          | Manufacturing Site                           |                                     | Weight*                         | UOM                                       | Unit Type                          |  |
|   |   | NB2305AI1HDTR2G HF - ZERO DEL |                           | AY BUFFER                   |           | 2023-06-08  |  |                          | PH1                        |  | 22.7                                | mg                              | Each                                      |                                    |  |
| Manufacturing P                                   | roccess Information   | 1                             |                           |                             |           |   |  |                          |                            |  |                                     |                                 |   |                                    |  |
| Terminal Plating / Grid Array Material Terminal H |   |                               | erminal Base A            | Alloy J-STD-020 MSL Rating  |           |   | Peak Process Body Temperature Max Time at Peak |                          |                            | ak Temper                                    | Temperature Number of Reflow Cycles |                                 |   |                                    |  |
| Matte Tin (Sn) - annealed CU Allo                 |   |                               | U Alloy                   | 3                           |           |   | 260 C 30                                       |                          |                            | seco   | seconds 3                           |                                 |   |                                    |  |
| Comments  |   |                               |                           |                             |           |   |  |                          |                            |  |                                     |                                 |   |                                    |  |
| ATTENTION: MSL 3                                  | 8 Rated item requires Ba  | ke and D                      | ry Pack (after            | electrical test)            |           |   |  |                          |                            |  |                                     |                                 |   |                                    |  |
| For more information                              | 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), 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.

|                      | cable [E] enter the weigh |                 |          | ance category (JIG or Requester) or enter<br>[F] Optionally enter the positive (+) ar |                  |        |         |                 |
|----------------------|---------------------------|-----------------|----------|---|------------------|--------|---------|-----------------|
| Homogeneous Material | Weight                    | Unit of Measure | Level    | Substance   | CAS              | Exempt | Weight  | Unit of Measure |
| Die                  | 1.0                       | mg              | Supplier | Silicon (Si)  | 7440-21-3        |        | 1       | mg              |
| Die Attach           | 0.66                      | mg              | Supplier | Silver (Ag)   | 7440-22-4        |        | 0.495   | mg              |
|                      |                           |                 | Supplier | Epoxy resins  | 129915-35-1      |        | 0.165   | mg              |
| Lead Frame           | 10.38                     | mg              | Supplier | Iron (Fe)   | 7439-89-6        |        | 0.1972  | mg              |
|                      |                           |                 | Supplier | Copper (Cu)   | 7440-50-8        |        | 10.1828 | mg              |
| Mold Compound-Black  | 9.5                       | mg              |          | Epoxy Phenol Resin  | proprietary data |        | 0.9975  | mg              |
|                      |                           |                 | Supplier | Fused Silica (SiO2)   | 60676-86-0       |        | 8.5025  | mg              |
| Plating              | 1.06                      | mg              | Supplier | Tin (Sn)  | 7440-31-5        |        | 1.06    | mg              |
| Wire Bond - Au       | 0.1                       | mg              | Supplier | Gold (Au)   | 7440-57-5        |        | 0.1     | mg              |