| ASSOCIATION CONNECTING ELECTROMOS INDUSTRIES® | Bannockbu | irn, Illinois, A | ll rights reserved untions. | under both | This docume level parts, t | ent is a declaration e | ion of the su | ubstances s all lower | within the manufactu level materials for v | urer listed which the | item. Note: manufacture | if the item is an as er has engineering | sembly with low responsibility. | |
|--|--------------------------|------------------------|-----------------------------|-------------------------|---|---|-----------------------------------|--------------------------|---|-----------------------|---------------------------------|--|---------------------------------|--|
| | | | | Form Type Distribute | * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information | | | | | tion | | | | |
| upplier Information | | | | | | | | | | | | | | |
| Company name* Company un | | | inique ID | | | Unique ID Authority | | | | Respon | Response Date* | | | |
| nsemi | | | | | | | | | | 2023-0 | 2023-06-08 | | | |
| Contact Name | act Name Title - Contact | | | | | Phone - Contact* | | | | Email | Email - Contact* | | | |
| roduct-Env-Stewards Product Enviro Compliance | | | ro Compliance | | NA | | | | Product-Env-Stewards@onsemi.com | | | | | |
| uthorized Representative* Title - Representative | | | | Phone - Representative* | | | | Email - Representative* | | | | | | |
| Product-Env-Stewards Product Enviro | | | ro Compliance | | | NA | | | | Produ | Product-Env-Stewards@onsemi.com | | | |
| Requester Item Number | Mfr Item Number | | Mfr Item Name | | | Effective Date | tive Date Version Manufacturing S | | Ianufacturing Site | | Weight* | UOM | Unit Type | |
| | MC145431 | 14543BDG LOG CMOS DSPL | | PLY DCODE D | RVR | 2023-06-08 | | Р | PH1 | | 142.68 | mg | Each | |
| Ianufacturing Proccess Information | 1 | | - | | | | | | | | | | | |
| Terminal Plating / Grid Array Materia | 1 Terminal Base Alloy | | J-STD-020 MSI | L Rating | Peak Proc | ocess Body Temperature Max Time at Peak | | k Tempera | ture Num | ber of Reflow Cyc | les | | | |
| Matte Tin (Sn) - annealed CU Alloy | | U Alloy | | 1 | | 260 | | С | 30 | seco | nds 3 | | | |
| omments | | | | | | | | | | | | | | |
| vel 1 - maximum time at peak temperature d | luring sold | lering is 10-3 | 0 seconds | | | | | | | | | | | |
| or more information regarding material com | position p | lease refer to | page 3 | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | | Declaration Type * | Detailed | | | | | | |
|--|--|--|---|---|---|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS 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 contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a | ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the | henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies | RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform | ce of its products with European Union membe | ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the 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 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.

| select a ROHS exemption, if appli sigma range of distribution unless | otherwise noted). | it of the substance of the Pl | PM concentration | [F] Optionally enter the positive (+) and n | legative (-) tolerance in per | cent (Note: percer | it tolerance values are | expected to cover a 3 |
|---|-------------------|-------------------------------|------------------|---|-------------------------------|--------------------|-------------------------|-----------------------|
| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
| Die | 2.73 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 2.73 | mg |
| Die Attach | 4.85 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 3.6375 | mg |
| | | | Supplier | Epoxy resins | 129915-35-1 | | 1.2125 | mg |
| Lead Frame | 75.92 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.7592 | mg |
| | | | Supplier | Zinc (Zn) | 7440-66-6 | | 0.1518 | mg |
| | | | Supplier | Iron (Fe) | 7439-89-6 | | 1.9739 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 73.035 | mg |
| Mold Compound-Black | 55.11 | mg | | Epoxy resin | proprietary data | | 2.7555 | mg |
| | | | Supplier | Phenolic Resin | Proprietary Data | | 2.7555 | mg |
| | | | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 1.1022 | mg |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 0.2756 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 48.2213 | mg |
| Plating | 3.73 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 3.73 | mg |
| Wire Bond - Cu | 0.34 | mg | Supplier | Copper (Cu) | 7440-50-8 | | 0.34 | mg |