| © C | terial Composit opyright 2005. IPC, I rnational and Pan-Arr | Bannockb | urn, Illinois. A | ll rights reserved untions. | inder both | This docume level parts, th | ent is a decla he declaratio | tration of on encon | of the substat npasses all l | nces wit lower le | thin the manufactur vel materials for w | rer listed i hich the n | tem. Not nanufacti | te: if the urer has | item is an ass engineering re | embly with lowe sponsibility. |
|--|--|------------|---------------------------|-----------------------------|------------------|---|---------------------------------|--|---------------------------------|---------------------------------|--|---------------------------------|--------------------------------|------------------------|----------------------------------|----------------------------------|
| | IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute | | | | e * | Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater | | | | | als and Mfg Information | | | | | |
| Supplier Information | ı | | | | | | | | | | | | | | | |
| Company name* | | | Company unique ID | | | Unique ID Authority | | | | | Response Date* | | | | | |
| onsemi | | | | | | | | | | | | 2023-06 | 2023-06-08 | | | |
| Contact Name | Title - Contact | | |] | Phone - Contact* | | | | | Email - | Email - Contact* | | | | | |
| Product-Env-Stewards | Product Enviro Compliance | | | | NA | | | | | Product-Env-Stewards@onsemi.com | | | | | | |
| Authorized Representative | Title - Representative | | | Phone - Representative* | | | | | Email - Representative* | | | | | | | |
| Product-Env-Stewards | | | Product Enviro Compliance | | | | NA | | | | | Product-Env-Stewards@onsemi.com | | | | |
| Requester Item | ter Item Number Mfr Item N | | | Number Mfr Item Name | | | Effective D | ffective Date Version Manufacturing Site | | , | Weight* | : | UOM | Unit Type | | |
| | ESD11N5.0ST5G LO | | LOW CAP BI DIRECTIONAL TV | | 2023-06-08 | 3 | | MY | MY1 | |).119 | | mg | Each | | |
| Manufacturing Proce | cess Information | l | | | | | | | | | | | | | | |
| Terminal Plating | Terminal Plating / Grid Array Material | | Ferminal Base Alloy J-S | | J-STD-020 MS | L Rating | Peak P | Peak Process Body Temperatu | | erature | ure Max Time at Peak Tempe | | rature Number of Reflow Cycles | | es | |
| Precious metal (e.g. Ag,Au, NiPdAu) (no Sn) | | i) (no C | CU Alloy 1 | | 1 | | 260 | | С | | 30 seco | | onds 3 | | | |
| Comments | | | | | | | • | | • | | | | | | | |
| evel 1 - maximum time at | peak temperature d | uring sol | dering is 10-3 | 0 seconds | | | | | | | | | | | | |
| for more information rega | arding material com | position p | please 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 | on above | Supplier Acceptance | * Accepted | | | | | | | | |
| Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions. | | | | | | | | | | | | |
| 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.

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).

| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
|----------------------|--------|-----------------|----------|--------------|-----------|--------|--------|-----------------|
| Bump | 0.005 | mg | В | Nickel (Ni) | 7440-02-0 | | 0 | mg |
| | | | Supplier | Gold (Au) | 7440-57-5 | | 0.005 | mg |
| Die | 0.114 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 0.114 | mg |