| ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® INCONNECTING international an | mposition De 05. IPC, Bannockt d Pan-American co | c laration ourn, Illinois. A opyright conver | All rights reserved u ntions. | nder both | This docume level parts, t | ent is a declaration er | on of the substan | ces within the manu ower level materials | facturer listed for which the | l item. Note: manufacture | if the item is an as or has engineering | sembly with low responsibility. | |
|--|--|---|---------------------------------|---------------------|--|-----------------------------|-------------------|---|----------------------------------|------------------------------|--|---------------------------------|--|
| | | | | | n Type * Declaration Class * ribute Class 6 - RoHS Yes/No, Homogeneous Mate | | | | faterials and | rials and Mfg Information | | | |
| upplier Information | | | | | | | | | | | | | |
| ompany name* | Company unique ID | | | 1 | Unique ID Authority | | | | Response Date* | | | | |
| nsemi | | | | | | | | | 2024-05-18 | | | | |
| ontact Name | Title - Contact | | |] | Phone - Contact* | | | | Email - Contact* | | | | |
| Product-Env-Stewards | Product Enviro Compliance | | | | NA | | | Prod | Product-Env-Stewards@onsemi.com | | | | |
| uthorized Representative* | Title - Representative | | |] | Phone - Representative* | | | Email | Email - Representative* | | | | |
| roduct-Env-Stewards | Product Enviro Compliance | | | | NA | | | Prod | Product-Env-Stewards@onsemi.com | | | | |
| Requester Item Number | Mfr Item | Number | Mfr Item Name | | | Effective Date | Version | Manufacturing Si | te | Weight* | UOM | Unit Type | |
| | QED123 | QED123A4R0 LED T1 | | ED T13-4 ALGAAS T&R | | 2024-05-18 | | LITEONFG | | 28.987 | mg | Each | |
| Ianufacturing Proccess Info | mation | | | | | | | | | | | | |
| Terminal Plating / Grid Arra | Terminal Plating / Grid Array Material | | erminal Base Alloy J-STD-020 MS | | Rating | Peak Process Body Temperatu | | ature Max Time at | Peak Temper | rature Num | ber of Reflow Cyc | cles | |
| Matte Tin (Sn) - annealed | | CU Alloy NA | | NA | | 0 C | | 30 | sec | onds 3 | | | |
| omments | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| or more information regarding mat | erial composition | please refer to | page 3 | | | | | | | | | | |

| RoHS Material Composition Declaration | | | | Declaration Type * | Detailed | | | | | |
|--|---|--|---|---|---|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS Directive 2011/65/EU | toHS 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 hthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl 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.

| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
|----------------------|--------|-----------------|----------|--|------------|--------|--------|-----------------|
| Die | 0.026 | mg | В | Gallium Arsenide (AsGa) | 1303-00-0 | | 0.0101 | mg |
| | | | Supplier | Silicon (Si) | 7440-21-3 | | 0.0159 | mg |
| Die Attach | 0.55 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.44 | mg |
| | | | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 0.11 | mg |
| Lead Frame | 10.35 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.021 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.062 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 10.267 | mg |
| Mold Compound-Black | 9.035 | mg | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 0.01 | mg |
| | | | Supplier | 2,4,6-Tris[Bis(Methoxymethyl)Amino]- 1,3,5-Triazine | 3089-11-0 | | 9.025 | mg |
| Plating | 9.025 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 9.025 | mg |
| Wire Bond - Au | 0.001 | mg | Supplier | Gold (Au) | 7440-57-5 | | 0.001 | mg |