| | Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved international and Pan-American copyright conventions. | | | All rights reserved u ntions. | nder both | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility. | | | | | | | | | |
|---------------------------|--|---------------------------|---------------------------------|-------------------------------|--|---|----------------------------|---------|---------------------------|---------------------------------|---------------------------------|------------------|------------------|------|-----------|
| 1752-21.1 | IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute | | | | * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi | | | | | als and Mfg Information | | | | | |
| Supplie | r Information | | | | | | | | | | | | | | |
| Company name* Comp | | | | ompany unique ID | | | Unique ID Authority | | | | | Response Date* | | | |
| onsemi | | | | | | | | | | | | 2022-02-10 | | | |
| Contact N | lame | | Title - Contact | | | | Phone - Contact* | | | | | Email - Contact* | | | |
| Product-l | Env-Stewards | | Product Enviro Compliance | | | | NA | | | | Product-Env-Stewards@onsemi.com | | | | |
| uthorize | ed Representative* | | Title - Representative | | | | Phone - Representative* | | | | Email - Representative* | | | | |
| Product- | Env-Stewards | Product Enviro Compliance | | | | NA | | | | Product-Env-Stewards@onsemi.com | | | | | |
| | | | n Number Mfr Item Name | | | | Effective Date | e Versi | on | Manufacturing Site | | v | Veight* | UOM | Unit Type |
| | | | SiC TO220 SBD | O220 SBD 20A 650V | | | | СРА | | 1 | 978.421 | mg | Each | | |
| /Ianufa | cturing Proccess Information | tion | | | | | | | | | | | | | |
| | Terminal Plating / Grid Array Material | | Ferminal Base Alloy J-STD-020 M | | J-STD-020 MS | L Rating | Peak Process Body Temperat | | ure Max Time at Peak Temp | | Temperatu | ire Numb | er of Reflow Cyc | cles | |
| Matte Tin (Sn) - annealed | | C | U Alloy NA | | | 0 C | | 30 | | second | ls 3 | | | | |
| Comments | 3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| or more | information regarding material | composition | please refer to | page 3 | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | | Declaration Type * | Detailed | | | | |
|--|--|--|---|---|---|--|--|--|--|
| Directive 2015/863/EU amending RoHS Directive 2011/65/EU | | mium (Cr6+), Polybrominated Biphenyls (Pl | | dmium and quantity limit of 0.1% by mass (10 minated Diphenyl Ethers (PBDE), and Bis(2-et | | | | | |
| cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company | ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in iffies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the | henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg | nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co | e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica | ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of | | | | |
| RoHS Declaration * 4 - Item(| s) does not contain RoHS restricted subst | ances per the definition above except for sele | ected exempt | ions Supplier Acceptance | * Accepted | | | | |
| Exemption: 7a: Lead in high melting temp | erature type solders (i.e. lead based sol | der alloys containing 85% by weight or m | ore lead). | | | | | | |
| 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 | astislav 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.

| sigma range of distribution unless | otherwise noted). | | | | | | | |
|------------------------------------|-------------------|-----------------|----------|----------------------------|------------------|--------|-----------|-----------------|
| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
| Die | 2.81 | mg | Supplier | Silicon Carbide | 409-21-2 | | 2.81 | mg |
| Die Attach Solder | 1.111 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.0278 | mg |
| | | | А | Lead (Pb) | 7439-92-1 | 7a | 1.0277 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.0555 | mg |
| Lead Frame | 1444.76 | mg | В | Nickel (Ni) | 7440-02-0 | | 1.0113 | mg |
| | | | Supplier | Iron (Fe) | 7439-89-6 | | 1.4448 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 1441.8705 | mg |
| | | | Supplier | Phosphorus (P) | 7723-14-0 | | 0.4334 | mg |
| Mold Compound-Black | 518.4 | mg | | Proprietary | proprietary data | | 63.504 | mg |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 2.592 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 362.88 | mg |
| | | | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 63.504 | mg |
| | | | Supplier | Phenolic Resin (Novolac) | 9003-35-4 | | 25.92 | mg |
| Plating | 8.9 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 8.9 | mg |
| Wire Bond - Al | 2.44 | mg | Supplier | Aluminum (Al) | 7429-90-5 | | 2.44 | mg |

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 signa range of distribution unless otherwise noted).