| © Copyright 2005 | © Convright 2005 IPC Bannockhurn Illinois All rights reserved under both | | | | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility. | | | | | | | | | |
|--|--|--------------------------|---------------------------|--------------|---|-------------------------|----------|---------------------|--------------------------|-------------------------|---------------------------------|------|-----------|--|
| | .1 IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distr | | | | | | | | ials and Mfg Information | | | | | |
| Supplier Information | | | | | | | | | | | | | | |
| Company name* | Company unique ID | | | | Unique ID Authority | | | | | Response Date* | | | | |
| onsemi | | | | | | | | | | 2023-0 | 2023-06-08 | | | |
| Contact Name Title - | | | Fitle - Contact | | | Phone - Contact* | | | | Email · | Email - Contact* | | | |
| Product-Env-Stewards Pro | | | Product Enviro Compliance | | | NA | | | | Produ | Product-Env-Stewards@onsemi.com | | | |
| Authorized Representative* Title - F | | | ele - Representative | | | Phone - Representative* | | | Email · | Email - Representative* | | | | |
| Product-Env-Stewards Product | | | Product Enviro Compliance | | | NA | | | | Produ | Product-Env-Stewards@onsemi.com | | | |
| Requester Item Number | Requester Item Number Mfr Iten | | n Number Mfr Item Name | | | Effective Date | Version | | Manufacturing Site | | Weight* | UOM | Unit Type | |
| | MC1452 | MC14528BDR2G LOG CMOS MI | | TIVIBRT DUAI | VIBRT DUAL | | | | PH1 | | 142.68 | mg | Each | |
| Manufacturing Proccess Inforn | ation | | | | | | | | | | | | | |
| Terminal Plating / Grid Array Material Terminal Base | | Alloy | J-STD-020 MSL | Rating | Peak Proc | ess Body T | emperati | re Max Time at Peak | Tempera | ture Numb | er of Reflow Cy | cles | | |
| Matte Tin (Sn) - annealed CU Alloy | | | | 1 | | 260 | | С | 30 | seco | nds 3 | | | |
| Comments | | | | | | | | | | | | | | |
| level 1 - maximum time at peak temper | ature during so | ldering is 10-3 | 0 seconds | | | | | | | | | | | |
| For more information regarding mater | al composition | 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), 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.

| 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 |