| ASSOCIATION CONNECTINI | Material Composition © Copyright 2005. IPC, international and Pan-Ar | Bannockb | urn, Illinois. A | Il rights reserved untions. | nder both | This docum level parts, | ent is a declara | tion of the s encompass | substances es all lowe | within the manufacture within the manufacture with the materials for with the materials for with the manufacture w | which the | item. Note: it manufacturer | f the item is an as has engineering | ssembly with lower 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 | | | | | rials and N | als and Mfg Information | | | | |
| Supplier Inform | ation | | | | | | | | | | | | | | |
| Company name* | | | Company unique ID | | | | Unique ID Authority | | | | | Response Date* | | | |
| onsemi | | | | | | | | | | | 2024-0 | 2024-05-02 | | | |
| Contact Name | | Title - Contact | | | | Phone - Contact* | | | | Email | Email - Contact* | | | | |
| Product-Env-Stewards | | | Product Enviro Compliance | | | | NA | | | | Produ | Product-Env-Stewards@onsemi.com | | | |
| Authorized Represe | ntative* | Title - Representative | | | | Phone - Representative* | | | | Email | Email - Representative* | | | | |
| Product-Env-Stewa | rds | Product Enviro Compliance | | | | NA | | | | Produ | Product-Env-Stewards@onsemi.com | | | | |
| Requeste | Requester Item Number Mfr Item | | n Number Mfr Item Name | | | | Effective Dat | e Version | 1 I | Manufacturing Site | | Weight* | UOM | Unit Type | |
| | | A5191HRTPG-XTP A5191HRTPG H | | ART MODEM | DEM ASS 2024- | | | I | PHG | | 1160.5 | mg | Each | | |
| Manufacturing | Proccess Information | n | | | | | | | | | | | | | |
| Terminal Plating / Grid Array Material Terminal B | | | erminal Base A | e Alloy J-STD-020 MSL Rating | | | Peak Process Body Temperature Max Time at Peak | | | k Tempera | Temperature Number of Reflow Cycles | | | | |
| Matte Tin (Sn) - annealed CU Alloy | | | U Alloy | | 3 | | 260 | | C | 30 | seco | nds 3 | | | |
| Comments | | | | | | | | | | | | | | | |
| ATTENTION: MSL | 3 Rated item requires Ba | ake and D | ry Pack (after | electrical test) | | | | | | | | | | | |
| for more informatio | on regarding material con | position | 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 shthalate (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.

| Substance Instructions: [A] select select a RoHS exemption, if applic sigma range of distribution unless | cable [E] enter the weigh | , Requester or Supplier) [B tt of the substance or the P] |] select the substa PM concentration | ance category (JIG or Requester) or enter a value [F] Optionally enter the positive (+) and negative | e (Supplier). [C] selec ve (-) tolerance in pero | t the substance (JI cent (Note: percer | G) or enter the substar tolerance values are | nce and CAS (Other). [D] expected to cover a 3 |
|--|---------------------------|--|---|---|---|---|---|--|
| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
| Die | 55.79 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 55.79 | mg |
| Die Attach | 6.45 | mg | Supplier | Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol | 129915-35-1 | | 1.677 | mg |
| | | | Supplier | Silver (Ag) | 7440-22-4 | | 4.773 | mg |
| Lead Frame | 372.2 | mg | Supplier | Zinc (Zn) | 7440-66-6 | | 0.3722 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 371.8278 | mg |
| Mold Compound-Black | 711.65 | mg | | Epoxy Phenol Resin | proprietary data | | 99.631 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 612.019 | mg |
| Plating | 13.48 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 13.48 | mg |
| Wire Bond - Au | 0.93 | mg | Supplier | Gold (Au) | 7440-57-5 | | 0.93 | mg |