| ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES* | l Composition De ht 2005. IPC, Bannock al and Pan-American c | claration burn, Illinois. A opyright conver | ll rights reserved u ntions. | nder both | This docume level parts, th | ent is a declaration er | on of the substand acompasses all lo | es within the man wer level material | ufacturer lister s for which the | d item. Note: i e manufacturer | f the item is an as has engineering | sembly with low responsibility. | |
|---|--|--|------------------------------|-------------------------|--|-------------------------------|---|---|-------------------------------------|-----------------------------------|--|---------------------------------|--|
| (5)_) | 1 IPC Web Site for Information on IPC-1752 Standard Form Typ | | | Form Type Distribute | * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi | | | | Materials and | als and Mfg Information | | | |
| upplier Information | | | | | | | | | | | | | |
| ompany name* | Company uni | Company unique ID | | | Unique ID Authority | | | | Response Date* | | | | |
| nsemi | | | | | | | | | 2024-05-21 | | | | |
| Contact Name Title | | | Title - Contact | | | Phone - Contact* | | | | Email - Contact* | | | |
| Product-Env-Stewards | Product Envi | Product Enviro Compliance | | | NA | | | | Product-Env-Stewards@onsemi.com | | | | |
| uthorized Representative* | Title - Repres | Title - Representative | | | Phone - Representative* | | | Emai | Email - Representative* | | | | |
| roduct-Env-Stewards | Product Enviro Compliance | | | | NA | | | | Product-Env-Stewards@onsemi.com | | | | |
| Requester Item Number Mfr Iter | | n Number Mfr Item Name | | | | Effective Date | Version | Manufacturing S | Site | Weight* | UOM | Unit Type | |
| | NGTB2 | NGTB20N60L2TF1G 600V 20A IC | | BT TO-3PF | | 2024-05-21 | | KR8 | | 5463.33 | mg | Each | |
| Ianufacturing Proccess I | nformation | | | | | | | | | | | | |
| Terminal Plating / Grid Array Material Term | | Ferminal Base A | nal Base Alloy J-STD-020 MSL | | L Rating | Peak Process Body Temperature | | ature Max Time a | t Peak Tempe | rature Numb | er of Reflow Cyc | cles | |
| Matte Tin (Sn) - annealed | | CU Alloy NA | | | 0 C | | 30 | sec | onds 3 | | | | |
| omments | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 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 ifies 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 Requester) and click on Submit Form to h | | | e drop-dowi | a. This will display the signature area. Digita | lly sign the declaration (if required by the |
| 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 | 3.34 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 3.34 | mg | |
| Die Attach | 7.54 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.1131 | mg | |
| | | | А | Lead (Pb) | 7439-92-1 | 7a | 7.0499 | mg | |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.377 | mg | |
| Lead Frame | 2497.32 | mg | Supplier | Iron (Fe) | 7439-89-6 | | 2.4973 | mg | |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 2494.0737 | mg | |
| | | | Supplier | Phosphorus (P) | 7723-14-0 | | 0.749 | mg | |
| Mold Compound-Black | 2937.01 | mg | | Phenolic Resin | proprietary data | | 220.2758 | mg | |
| | | | Supplier | Epoxy Phenol Resin | Proprietary Data | | 264.3309 | mg | |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 5.874 | mg | |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 390.6223 | mg | |
| | | | Supplier | Silica Crystalline (SiO2) | 14808-60-7 | | 2055.907 | mg | |
| Plating | 12.0 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 12 | mg | |
| Wire Bond - Al | 6.12 | mg | Supplier | Aluminum (Al) | 7429-90-5 | | 6.12 | 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