



# Material Composition Declaration

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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.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
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## Supplier Information

Company Name * NIC Components Corp.	Company Unique ID	Unique ID Authority	Response Date * 2020-04-25	Response Document ID				
Contact Name * Michael Mack	Title - Contact Product Compliance Manager	Phone - Contact * 631-396-7500	Email - Contact * mike.mack@niccomp.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Michael Mack	Title - Representative Product Compliance Manager	Phone - Representative * 631-396-7500	Email - Representative * rohs@niccomp.com	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
	NRCL02 Series Suffix "F"		2004-10-01			0.16	mg	Each
Alternate Recommendation				Alternate Item Comments				

## Manufacturing Process Information

Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	Number of Reflow Cycles
Matte Tin (Sn) - with Nickel (Ni) barrier	Not Applicable	1	260 C	10 seconds	2
Comments Matte Sn over Ni Barrier over NiCr Sputter					

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Lock Supplier Fields

## RoHS Material Composition Declaration

Declaration Type \*

Detailed

**RoHS Directive 2002/95/EC** | **RoHS Definition:** Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.

RoHS Declaration \*

1 - Item(s) does not contain RoHS restricted substances per the definition above

Supplier Acceptance \*

Accepted

**Exemptions:** If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

## 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

## 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 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 sigma range of distribution unless otherwise noted).

**Line Functions:** +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

+I	-I	Item/SubItem Name	+M	-M	Homogeneous Material	Weight	Unit of Measure	+C	-C	Level	Substance Category	+S	-S	Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
																			-	+	
		NRCL02 Series Surf			Ceramic Substra	0.12901	mg			Supplier	Oxides			Aluminium oxide	1344-28-1		0.12553	mg			
														Silicon dioxide	14808-60-7		0.00241	mg			
														Calcium Peroxide	1305-79-9		0.0003	mg			
														Magnesium oxide	1309-48-4		0.00077	mg			
		Lower Electrode				0.00291	mg			Supplier	Metals			Silver	7440-22-4		0.00224	mg			
														Silicon dioxide	14808-60-7		0.00045	mg			
														Copper(II) oxide	1317-38-0		0.00022	mg			
		Upper Electrode				0.00224	mg			Supplier	Metals			Silver	7440-22-4		0.00218	mg			
														Palladium	7440-05-3		0.00006	mg			
														Aluminium oxide	1344-28-1		0.00006	mg			
														Silicon dioxide	14808-60-7		0.00009	mg			
		Upper Electrode				0.0012	mg			Supplier	Metals			Silver	7440-22-4		0.0012	mg			
		Resistive Elemer				0.00188	mg			Supplier	Metals			Silver	7440-22-4		0.00052	mg			
														Palladium	7440-05-3		0.00014	mg			
														Ruthenium Dioxide	12036-10-1		0.00043	mg			
														Barium Oxide	1304-28-5		0.00014	mg			
														Zinc Oxide	1314-13-2		0.00011	mg			
														Lead Free Glass	65997-18-4		0.00054	mg			
		Primary Coating				0.00223	mg			Supplier	Oxides			Bismuth oxide	1304-76-3		0.0012	mg			
														Silicon oxide	7631-86-9		0.00026	mg			
														Aluminum oxide	1344-28-1		0.00023	mg			
														Zirconium dioxide	1314-23-4		0.00011	mg			
														Barium oxide	1304-28-5		0.00009	mg			

+C	-C	Supplier	Others		+S	-S	Copper phthlocyanine	147-14-8		0.00003	mg								
+C	-C	Supplier	Glass		+S	-S	Lead Free Glass	65997-18-4		0.00031	mg								
+M	-M	Protective Coatin	0.00593	mg	+C	-C	Supplier	Resin		+S	-S	Epoxy Resin	25068-38-6		0.00108	mg			
+C	-C	Supplier	Oxides		+S	-S	Silicon dioxide	14808-60-7		0.00377	mg								
+C	-C	Supplier	Others		+S	-S	Carbon Black	1333-86-4		0.00108	mg								
+M	-M	Side Electrode	0.00013	mg	+C	-C	Supplier	Metals		+S	-S	Nickel	7440-02-0		0.0001	mg			
					+S	-S	Chromium	7440-47-3		0.00003	mg								
+M	-M	Ni Barrier Layer	0.0076	mg	+C	-C	Supplier	Metals		+S	-S	Nickel	7440-02-0		0.0076	mg			
+M	-M	Sn Termination L	0.0067	mg	+C	-C	Supplier	Metals		+S	-S	Tin	7440-31-5		0.0067	mg			