ASSOCIATION CONNECT	Material Composition © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	Il rights reserved un ntions.	nder both	This docume level parts, t	ent is a declara the declaration	tion of th encompa	ne substance asses all low	s within the er level mate	manufactur erials for wl	er listed it hich the m	em. Note: anufacture	if the item is an as r has engineering	sembly 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 					als and Mfg Information					
Supplier Inform	mation														
Company name*			Company unique ID			-	Unique ID Authority					Response Date*			
onsemi												2024-05-05			
Contact Name			Title - Contact				Phone - Contact*				Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Reques	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Da	ate Version Manufacturing Site		V	Veight*	UOM	Unit Type		
		NCN8024RDWR2G SM		SMART CARD IC			2024-05-05					7	92.01	mg	Each
Manufacturing	g Proccess Information	1													
Terminal Plating / Grid Array Material Termi			erminal Base A	minal Base Alloy J-STD-020 MSL I			Peak Process Body Temperature Max Time at Pea			me at Peak	k Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU			U Alloy 3				260 C 30				seconds 3				
Comments															
ATTENTION: MS	SL 3 Rated item requires Ba	ke and D	ry Pack (after	electrical test)											
or more informat	tion regarding material con	position j	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.

sigma range of distribution unless otherwise noted).										
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	29.61	mg	Supplier	Silicon (Si)	7440-21-3		29.61	mg		
Die Attach	12.56	mg	Supplier	Silver (Ag)	7440-22-4		9.42	mg		
			Supplier	Epoxy resins	129915-35-1		3.14	mg		
Lead Frame	196.75	mg	Supplier	Silver (Ag)	7440-22-4		6.4928	mg		
			Supplier	Zinc (Zn)	7440-66-6		0.3935	mg		
			Supplier	Iron (Fe)	7439-89-6		4.9188	mg		
			Supplier	Copper (Cu)	7440-50-8		184.945	mg		
Mold Compound-Black	545.87	mg		Epoxy Phenol Resin	proprietary data		57.3163	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		488.5536	mg		
Plating	6.53	mg	Supplier	Tin (Sn)	7440-31-5		6.53	mg		
Wire Bond - Au	0.69	mg	Supplier	Gold (Au)	7440-57-5		0.69	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 (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 signa range of distribution unless otherwise noted)