ASSOCIATION CONNECTINI ELECTRONICS INDUSTRIES	Material Composit © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved untions.	under both	This docum level parts, t	ent is a declara	tion of the encompass	substance ses all low	s within the er level mat	manufactur erials for wl	rer 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 Typ http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information				
Supplier Inform	ation														
Company name*			Company unique ID				Unique ID Authority					Response Date*			
onsemi										2024-05-18					
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				
Requeste	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	ate Version Manufacturing Site		1	Weight*	UOM	Unit Type		
		FW4604-TL-2W NCH+PCH 4		NCH+PCH 4.5V	V DRIVE SERIES		2024-05-18					8	32.62	mg	Each
Manufacturing	Proccess Information	1													
Terminal Plating / Grid Array Material Ter			erminal Base Alloy J-STD-020 MSL			L Rating	Peak Process Body Temperature Max Time at Pea			me at Peak	k Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU A			U Alloy	oy 1			260 C 30				seconds 3				
Comments															
evel 1 - maximum ti	ime at peak temperature o	luring sol	dering is 10-3	0 seconds											
or more informatio	on 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.

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).										
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	1.02	mg	Supplier	Silicon (Si)	7440-21-3		1.02	mg		
Die Attach	0.57	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.0741	mg		
			Supplier	Silver (Ag)	7440-22-4		0.4959	mg		
Lead Frame	33.17	mg	Supplier	Silver (Ag)	7440-22-4		0.3317	mg		
			Supplier	Zinc (Zn)	7440-66-6		0.0299	mg		
			Supplier	Iron (Fe)	7439-89-6		0.7928	mg		
			Supplier	Copper (Cu)	7440-50-8		31.9858	mg		
			Supplier	Phosphorus (P)	7723-14-0		0.0299	mg		
Mold Compound-Black	46.22	mg		Epoxy Phenol Resin	proprietary data		4.8531	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		41.3669	mg		
Plating	1.09	mg	Supplier	Tin (Sn)	7440-31-5		1.09	mg		
Wire Bond - Cu	0.55	mg	Supplier	Copper (Cu)	7440-50-8		0.55	mg		