IPC ASSOCIATION ELECTRONICS	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved international and Pan-American copyright conventions.			der both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.								
1752-21.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Typ Distribute								als and Mi	g Inform	ation			
Supplier	Information													
Company name* Company				pany unique ID			Unique ID Authority				Response Date*			
nsemi											2023-06-08			
Contact Na	me	Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Ei	nv-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
uthorized	Representative*	Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Requester Item Number Mfr I		Mfr Item	n Number Mfr Item Name				Effective Dat	tive Date Version Manufacturing		Manufacturing Site	V	Veight*	UOM	Unit Type
	DF005S BR SDIP PN		BR SDIP PN 1.5A	.5A 50V		2023-06-08		:	PANJITFG		10.0	mg	Each	
	turing Process Informa													
			erminal Base			L Rating			ture Max Time at Peak Temper			mber of Reflow Cyc	eles	
	Matte Tin (Sn) - annealed		CU Alloy	1			260		C	30	secono	ds 3		
Comments														
	ximum time at peak temperat													
or more in	iformation regarding materia	l composition	please refer to	page 3										

RoHS Material Composition Declaration			Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		by mass (100 PPM) in homogeneous material for tum (Cr6+), Polybrominated Biphenyls (PBB), Polyl Disobutyl phthalate (DIBP).								
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, 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 inexcess 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 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 exclusivesource of the Supplier's Itaability and the Company's remedies for issues that arise regarding information the Supplier provides in this f										
RoHS Declaration * 4 - Item(s	s) does not contain RoHS restricted substance	ces per the definition above except for selected exer	nptions Supplier Acceptance	* Accepted						
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead). Exemption: 7c-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.										
Exemption List Version	EL-2011/534/EU									
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 R		,								

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	3.6	mg	Supplier	Silicon (Si)	7440-21-3		3.3768	mg
			В	Nickel (Ni)	7440-02-0		0.0324	mg
			Supplier	Gold (Au)	7440-57-5		0.018	mg
			A	Lead Oxide (PbO)	1317-36-8	7c	0.1728	mg
Die Attach Solder	2.595	mg	Supplier	Silver (Ag)	7440-22-4		0.0649	mg
			A	Lead (Pb)	7439-92-1	7a	2.4004	mg
			Supplier	Tin (Sn)	7440-31-5		0.1297	mg
Lead Frame	63.63	mg	Supplier	Iron (Fe)	7439-89-6		0.0764	mg
			Supplier	Copper (Cu)	7440-50-8		63.5346	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0191	mg
Mold Compound-Black	233.175	mg		Metal Hydroxide	proprietary data		8.1611	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		18.654	mg
			Supplier	Carbon Black (C)	1333-86-4		1.1659	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		186.54	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		18.654	mg
Plating	7.0	mg	Supplier	Tin (Sn)	7440-31-5		7	mg