ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	Material Composit © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	Il rights reserved untions.	under both	This docum level parts, t	ent is a declara	tion of the s encompass	substances es all lowe	within the manufa r level materials fo	cturer listed r which the	l item. Note: if manufacturer	the item is an as has engineering	ssembly 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				terials and	als and Mfg Information				
Supplier Informa	tion														
Company name*			Company unique ID				Unique ID Authority				Respo	Response Date*			
onsemi											2024-0	2024-05-18			
Contact Name			Title - Contact				Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative				Phone - Representative*				Email	Email - Representative*			
Product-Env-Stewards			Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
Requester I	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	e Versior	n ľ	Manufacturing Site		Weight*	UOM	Unit Type	
		NTB082N65S3F SUPERFET3 6		SUPERFET3 650	50V D2PAK PKG		2024-05-18		(	СРА		1485.098	mg	Each	
Manufacturing P	roccess Information	1													
Terminal Plating / Grid Array Material Termina			erminal Base A	Base Alloy J-STD-020 MSL Ratin			Peak Process Body Temperature Max Time at Peak			eak Temper	Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy			U Alloy	1			245 C 30			sec	seconds 3				
Comments															
evel 1 - maximum tim	e at peak temperature d	luring sol	dering is 10-3	0 seconds											
for more information	regarding material com	position <b>j</b>	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	g RoHS 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, 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 iffies 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 temperature type solders (i.e. lead based solder alloys containing 85% by weight or more 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	12.3	mg	Supplier	Silicon (Si)	7440-21-3		12.3	mg	
Die Attach Solder	7.33	mg	Supplier	Silver (Ag)	7440-22-4		0.1832	mg	
			А	Lead (Pb)	7439-92-1	7a	6.7803	mg	
			Supplier	Tin (Sn)	7440-31-5		0.3665	mg	
Lead Frame	860.318	mg	Supplier	Tin (Sn)	7440-31-5		1.0324	mg	
			В	Nickel (Ni)	7440-02-0		0.4302	mg	
			Supplier	Copper (Cu)	7440-50-8		858.8555	mg	
Mold Compound-Black	595.0	mg		Epoxy resin	proprietary data		35.7	mg	
			Supplier	Phenolic Resin	Proprietary Data		35.7	mg	
			Supplier	Carbon Black (C)	1333-86-4		2.975	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		505.75	mg	
			Supplier	Silica Crystalline (SiO2)	14808-60-7		14.875	mg	
Plating	5.52	mg	Supplier	Tin (Sn)	7440-31-5		5.52	mg	
Wire Bond - Al	4.63	mg	Supplier	Aluminum (Al)	7429-90-5		4.63	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 signa range of distribution unless otherwise noted).