Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.						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.									
1752-21.1					Form Type Distribute						ials and Mfg Information				
Supplier Information															
Company	name*		Company uni	Company unique ID			Unique ID Authority					Response Date*			
onsemi												2024-04-25			
Contact N	ame		Title - Contact				Phone - Contact*					Email - Contact*			
Product-E	Env-Stewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
Authorized	d Representative*	Title - Representative				Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number	Mfr Item Number Mfr Item N		Mfr Item Name	r Item Name		Effectiv	ve Date	Version	M	Manufacturing Site		Weight*	UOM	Unit Type
	TF412S7		NCH J-FET SOT-883				2024-0)4-25		M	MY1		0.694	mg	Each
Manufacturing Proccess Information															
	Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 M			Peak Process Body Temperature Max Time at P			e Max Time at Peak	ak Temperature Number of Reflow Cycles				
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy 1		1		260			C 30		seconds 3			
Comments															
level 1 - maximum time at peak temperature during soldering is 10-30 seconds															
For more information regarding material composition please refer to page 3															

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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).											
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 knowledges 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 informationprovided 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 Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	Accepted						
Exemption: 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.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the						

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	0.023	mg	Supplier	Silicon (Si)	7440-21-3		0.023	mg
Die Attach	0.013	mg		Resin	proprietary data		0.001	mg
			Supplier	Silver (Ag)	7440-22-4		0.011	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.001	mg
Lead Frame	0.323		Supplier	Tin (Sn)	7440-31-5		0.0008	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0007	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0008	mg
			Supplier	Copper (Cu)	7440-50-8		0.3207	mg
Mold Compound-Black	0.32		Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0256	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0016	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0064	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.2768	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0096	mg
Plating	0.003		Supplier	Palladium (Pd)	7440-05-3		0.0001	mg
			В	Nickel (Ni)	7440-02-0		0.0026	mg
			Supplier	Gold (Au)	7440-57-5		0.0003	mg
Wire Bond - Au	0.012	mg	Supplier	Gold (Au)	7440-57-5		0.012	mg