ASSOCIATION CONNECT	© Copyright 2005. IP	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.									
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute									us Materia	als and Mf	g Informa	tion	
Supplier Info	rmation						·								
Company name*			Company un	Company unique ID			Unique ID Authority					Response Date*			
onsemi												2024-05-10			
Contact Name		Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*				
Product-Env-Ste	wards	Product Enviro Compliance			]	NA					Product-Env-Stewards@onsemi.com				
authorized Repro	esentative*	Title - Repre	Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Ste	wards	Product Enviro Compliance			]	NA				Product-Env-Stewards@onsemi.com					
Reque	quester Item Number Mfr Iter		em Number Mfr Item Name				Effective Date	e Versio	Version Manufacturing Site		g Site	Weight*		UOM	Unit Type
		ESD7424MUT5G 24V protection		24V protection in	in UDFN2		2024-05-10 M		MY1		7.	7.557 mg		Each	
Ianufacturin	ng Proccess Informat	ion													
Termin	al Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 M	TD-020 MSL Rating		Peak Process Body Temperatur		re Max Time at Peak Temper		Temperatu	rature Number of Reflow Cycles		eles
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		С		30 seco		s <b>3</b>		
Comments															
vel 1 - maximun	n time at peak temperatu	re during so	ldering is 10-3	30 seconds											
or more informa	ation regarding material o	composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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 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 have 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 liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	0.14	mg	Supplier	Silicon (Si)	7440-21-3		0.14	mg
Die Attach	0.12	mg	Supplier	Silver (Ag)	7440-22-4		0.09	mg
			Supplier	Epoxy resins	129915-35-1		0.03	mg
Lead Frame	0.832	mg	Supplier	Magnesium (Mg)	7439-95-4		0.0012	mg
			Supplier	Silicon (Si)	7440-21-3		0.0054	mg
			В	Nickel (Ni)	7440-02-0		0.025	mg
			Supplier	Copper (Cu)	7440-50-8		0.8004	mg
Mold Compound-Black	6.22	mg		Epoxy resin	proprietary data		0.311	mg
			Supplier	Phenolic Resin	Proprietary Data		0.1431	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.311	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0249	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.1431	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.287	mg
Plating	0.213		Supplier	Palladium (Pd)	7440-05-3		0.0051	mg
			В	Nickel (Ni)	7440-02-0		0.1874	mg
			Supplier	Gold (Au)	7440-57-5		0.0204	mg
Wire Bond	0.032	mg	Supplier	Palladium (Pd)	7440-05-3		0.0003	mg
			Supplier	Copper (Cu)	7440-50-8		0.0317	mg