ASSOCIATION CONNECTING	© Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved un tions.	nder both	This docume level parts, t	ent is a declara he declaration	tion of the sencompass	substances es all lowe	within the manufactu r level materials for w	rer listed	item. Note: if nanufacturer	the item is an as has engineering	sembly with lower responsibility.	
1752-21.1				Form Type Distribute					Homogeneous Mater	terials and Mfg Information					
Supplier Inform	ation														
Company name*			Company unique ID				Unique ID Authority				Response Date*				
onsemi											2024-05	2024-05-21			
Contact Name			Title - Contact				Phone - Contact*				Email -	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				
Requester	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	e Version	ion Manufacturing Site			Weight*	UOM	Unit Type	
		QT2518B RFI		RFIC 4x4 5GHz			2024-05-21		1	KR9		106.95	mg	Each	
Manufacturing I	Proccess Information	1													
Terminal Plating / Grid Array Material Term		rminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperate		re Max Time at Peak	Tempera	ture Numb	er of Reflow Cy	cles				
SnAgCu CU			U Alloy 3				260 C 30			30	seconds 3				
Comments															
TTENTION: MSL	3 Rated item requires Ba	ake and D	ry Pack (after	electrical test)											
or more informatio	on regarding material con	position	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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	10.6	mg	Supplier	Silicon (Si)	7440-21-3		10.6	mg
Insulating Mold	59.0	mg	Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'- tetramethylbiphenyl	85954-11-6		8.85	mg
			Supplier	Carbon Black (C)	1333-86-4		0.059	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		44.25	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		5.841	mg
Solder Ball	12.0	mg	Supplier	Silver (Ag)	7440-22-4		0.36	mg
			Supplier	Tin (Sn)	7440-31-5		11.58	mg
			Supplier	Copper (Cu)	7440-50-8		0.06	mg
Substrate and Solder Mask	20.35	mg	Supplier	Naphthalene	91-20-3		0.407	mg
			Supplier	Phosphinoxide Derivative	Proprietary Data		1.0175	mg
			Supplier	2-(2-methoxypropoxy)propanol	34590-94-8		2.442	mg
			Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'- tetramethylbiphenyl	85954-11-6		4.07	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		1.0175	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5		3.0525	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		8.3435	mg
Underfill	5.0	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.25	mg
			Supplier	Phenolic Resin	Proprietary Data		0.5	mg
			Supplier	Carbon Black (C)	1333-86-4		0.025	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.225	mg