© Copyri	ial Composition D ight 2005. IPC, Bannoc onal and Pan-American	kburn, Illinois. A	Il rights reserved untions.	nder both	This docume level parts, t	ent is a declara the declaration	ion of the s encompasse	ubstances es all lowe	within the manufac er level materials for	turer listed which the	item. Note: i manufacturer	if the item is an as r has engineering	sembly with lower responsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				 Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi 					erials and l	als and Mfg Information			
Supplier Information														
Company name* Co			Company unique ID			Unique ID Authority					Response Date*			
onsemi										2025-0	2025-06-07			
Contact Name Title - Co			e - Contact			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Prod			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title			Citle - Representative			Phone - Representative*				Email	Email - Representative*			
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Requester Item Num	Requester Item Number Mfr Item		n Number Mfr Item Name			Effective Dat	e Version		Manufacturing Site		Weight*	UOM	Unit Type	
	MUN2	MUN2231T1G SS SC59 BR		XSTR NPN 50V		2025-06-07					11.03	mg	Each	
Manufacturing Proccess	Information													
Terminal Plating / Grid Array Material Terminal Base		Alloy	J-STD-020 MSL Rating			Peak Process Body Temperature Max Time at Peak			ak Temper	Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1		260		C	30	seco	onds 3			
Comments														
evel 1 - maximum time at peak	temperature during	oldering is 10-3	0 seconds											
For more information regardin	ng material compositio	n 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), Disobutyl 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 v 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 co 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	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.

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	0.22	mg	Supplier	Silicon (Si)	7440-21-3		0.22	mg
Lead Frame	3.06	mg	В	Nickel (Ni)	7440-02-0		1.2393	mg
			Supplier	Iron (Fe)	7439-89-6		1.6983	mg
			Supplier	Copper (Cu)	7440-50-8		0.1224	mg
Mold Compound-Black	7.13	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.713	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0356	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		1.0338	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		4.6345	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.713	mg
Plating	0.52	mg	Supplier	Tin (Sn)	7440-31-5		0.52	mg
Wire Bond - Cu	0.1	mg	Supplier	Copper (Cu)	7440-50-8		0.1	mg