ABSOCIATION CONNECTING ELECTRONICE INDUSTRIES MOUSTRIES MOUSTRIES MOUSTRIES MOUSTRIES MOUSTRIES MOUSTRIES MOUSTRIES MAterial Composition De © Copyright 2005. IPC, Bannocklin international and Pan-American co	ourn. Illinois. All rights reserved u	nder both This doct level part	ment is a declaration e	on of the substance ncompasses all low	es within the manufactur ver level materials for wl	er listed item. Note: hich the manufacture	if the item is an a er has engineering	ssembly with lower responsibility.	
IPC Web Site for Information on I http://www.ipc.org/IPC-175x	PC-1752 Standard	Form Type * Distribute		laration Class * ss 6 - RoHS Yes/N	o, Homogeneous Materia	als and Mfg Information			
Supplier Information									
Company name*	ame* Company unique ID		Unique ID Authority			Response Date*			
onsemi						2025-06-08			
Contact Name	Title - Contact		Phone - Contact*			Email - Contact*			
Product-Env-Stewards	-Env-Stewards Product Enviro Compliance		NA			Product-Env-Stewards@onsemi.com			
Authorized Representative*	epresentative* Title - Representative		Phone - Representative*			Email - Representative*			
Product-Env-Stewards Product Enviro Com		Compliance		NA			Product-Env-Stewards@onsemi.com		
Requester Item Number Mfr Iten	Number Mfr Item Name	Mfr Item Name		Version	Manufacturing Site	Weight*	UOM	Unit Type	
MBRB1	045T4G REC D2PAK 10A	A 45V SHTKY	2025-06-08		CN5	1420.1	mg	Each	
Manufacturing Proccess Information			-		·				
Terminal Plating / Grid Array Material	Ferminal Base Alloy	J-STD-020 MSL Rating	Peak Proc	ess Body Tempera	ture Max Time at Peak	Temperature Num	ber of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy		1	260	С	30	seconds 3			
Comments									
level 1 - maximum time at peak temperature during so	Idering is 10-30 seconds								
For more information regarding material composition	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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP), Disobutyl 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, admium, 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 is 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 knowledge shalt 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 ndependently verified information provided by others, Supplier agrees that, at a minimum, itssuppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the iterification in this paragraph. If the Company and the Supplier rinto 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 hat 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 varranty rights and/or rem									
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 temp	erature type solders (i.e. lead based sol	der alloys containing 85% by weight or m	ore 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.19	mg	Supplier	Silicon (Si)	7440-21-3		0.19	mg
Die Attach 11.34	11.34	mg	А	Lead (Pb)	7439-92-1	7a	10.773	mg
			Supplier	Tin (Sn)	7440-31-5		0.567	mg
Lead Frame 85	851.91	mg	В	Nickel (Ni)	7440-02-0		2.5557	mg
			Supplier	Copper (Cu)	7440-50-8		849.3542	mg
Mold Compound-Black 529	529.31	mg		Epoxy resin	proprietary data		37.0517	mg
			Supplier	Phenolic Resin	Proprietary Data		15.8793	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		52.931	mg
			Supplier	Carbon Black (C)	1333-86-4		2.6465	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		420.8015	mg
Plating	27.15	mg	Supplier	Tin (Sn)	7440-31-5		27.15	mg
Wire Bond - Al	0.2	mg	Supplier	Aluminum (Al)	7429-90-5		0.2	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 signar range of distribution unless otherwise noted)