IPC ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	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 http://www.ipc.org/IPC-175x Form Typ Distribute				Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater					ials and Mfg Information			
upplier I	nformation													
Company name*			Company unique ID			J	Unique ID Authority				Response Date*			
n Semicond	ductor										2021-02-04			
Contact Nam	ne		Title - Contact			I	Phone - Contact*				Email - Contact*			
Product-Env	v-Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
uthorized R	Representative*		Title - Representative			I	Phone - Representative*				Email - Representative*			
Product-Env	v-Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
R	Requester Item Number Mfr Ite		m Number Mfr Item Name				Effective Date	Version	N	Manufacturing Site	W	eight*	UOM	Unit Type
		MMBT2131T1G SS		SS SC74 LS XSTR PNP 40V			2021-02-04		C	CN1		.43	mg	Each
Ianufactu	uring Process Inform	ation												
Те	Terminal Plating / Grid Array Material Termi			erminal Base Alloy J-STD-020 MSL Rating			Peak Process Body Temperature Max Time at Peak				Temperature Number of Reflow Cycles			
Matte Tin (Sn) - annealed			CU Alloy 1			260 C 30		30	second	3				
omments														
vel 1 - maxi	imum time at peak tempera	ture during sol	dering is 10	30 seconds										
or more inf	ormation regarding materia	al composition	please refer t	o 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 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 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 has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers 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 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	0.67	mg	Supplier	Silicon (Si)	7440-21-3		0.67	mg
Lead Frame	2.55		В	Nickel (Ni)	7440-02-0		0.9664	mg
			Supplier	Iron (Fe)	7439-89-6		1.3362	mg
			Supplier	Copper (Cu)	7440-50-8		0.2473	mg
Mold Compound-Black	10.0		Supplier	Ortho Cresol Novolac Resin	29690-82-2		1	mg
			Supplier	Carbon Black (C)	1333-86-4		0.05	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		1.45	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		6.5	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1	mg
Plating	0.13	mg	Supplier	Tin (Sn)	7440-31-5		0.13	mg
Wire Bond - Cu	0.08	mg	Supplier	Copper (Cu)	7440-50-8		0.08	mg