_ AS		Material Composition © Copyright 2005. IPC, Bannockburn, III ooth international and Pan-American copy	on Declaration with lowe inois. All rights reserved under engineering		declaration er	ncompasses al	l lower level ma	terials for wh	e: if the item is an assembly nich the manufacturer has this declaration.			
17	3Z-Z I.I	PC Web Site for Information on http://www.ipc.org/IPC-175x	IPC-1752 Standard	Form Type * Request/Rep		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa						
Re	quester Information								Lock Request Fields			
Cor	mpany Name *	Company Unique ID	Unique ID Authority	Request Date*	ŧ	Request D	Ocument ID	Respo	Respond By Date			
Mu	rata Power Solutions,	Inc.		2022-11-11								
	ntact Name *	Contact Title	Contact Phone *	Contact Email	*	Requester	Requester Comments or URL for Additional Information					
Lily	Gan			lily.gan@mura	ata.com							
Му	supplier ID	The File Type and Destination submitted by the supplier. Cor	i fields control how the form is a sult your IT staff for configuration.	File Type PDF	, ·		mail Address		Supplier provides Mfr Item Version & Manufacturing Site.			
	Item Number *	Item Name	Item Name Mfr Item Number *			Mfr Item Ve	rsion	Manufa	Manufacturing Site			
			MMSZ5243BT1G	MMSZ52		1		CN1	CN1			
Sup	plier Information											
Cor	npany Name *	Company Unique ID	Unique ID Authority	Response Date	e *	Response	Document ID					
ons	emi			2022-11-11								
Cor	tact Name *	Title - Contact	Phone - Contact *	Email - Contact *		Dunl	lianta Contact	> Authoriz	ad Papragantativa			
Pro	duct-Env-Stewards	Product Enviro Compliance	En <b>NA</b>	Product-Env-Stewards@onse Duplicate Contact -> Authorized Representation					ed Representative			
Aut	horized Representativ	re * Title - Representative	Email - Representative * Supplier Comments or URL for Additional Information									
Pro	duct-Env-Stewards	Product Enviro Compliance	⊧ En <b>¢NA</b>	Product-Env-S	Stewards@o	nse						
	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version Ma	nufacturing Site	Weight *	UOM	Unit Type			
		MMSZ5243BT1G	MMSZ52	2022-11-11	1 CN	1	11.525	mg	Each			
	Alternate Recommenda	tion			Alternate Item	Comments						
Ма	nufacturing Proces	s Information										

Terminal Plating / Grid Array Material	Terminal 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	<b>260</b> C	30 seconds	3
Comments	•			•	

level 1 - maximum time at peak temperature during soldering is 10-30 seconds

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields this form to a file file into this form fields on this form form to prevent changes **RoHS Material Composition Declaration Declaration Type \*** Detailed Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC Please indicate whether any homogeneous material (as defined by the RoHS Directive, 2015/863/EU amending RoHS Directive 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 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. 1 - Item(s) does not contain RoHS restricted substances per the definition above Supplier Acceptance \* Accepted **RoHS Declaration \*** Exemptions: 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. **Declaration Signature** 

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature

## **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).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem		Homogeneous	Weight	Unit of			Level	Substance Category			Substance	CAS	Exempt		Unit of Measure	Tolerance		PPM
	Name		Material	weight	Measure			Levei	Substance Category			Substance	CAS				-	+	FFIVI
+1 -1		+M -M	Die	0.88	mg	+C	-C	Supplier		+S	-S	Silicon (Si)	7440-21-3		0.88	mg			
		+M -M	Lead Frame	3.19	mg	+C	٠	В		+S	-s	Nickel (Ni)	7440-02-0		1.15797	mg			
						+C	٠	Supplier		+S	-s	Iron (Fe)	7439-89-6		1.60138	mg			
						+C	-C	Supplier		+S	-s	Copper (Cu)	7440-50-8		0.43065	mg			
		+M -M	Mold Compound	6.51	mg	+C	-C	Supplier		+S	-S	Boron zinc hydroxide o	138265-88-0		0.1953	mg			
			_	•		+C	-C	Supplier		+S	-s	Zinc Monoxide (ZnO)	1314-13-2		0.03255	mg			
						+C	-C	Supplier		+S	-s	2,4,6-triamino-1,3,5-triaz	37640-57-6		0.1953	mg			
						+C	-C	Supplier		+S	-s	Silica Amorphous (SiO2	7631-86-9		5.208	mg			
						+C	-C	Supplier		+S	-s	Carbon Black (C)	1333-86-4		0.0651	mg			
						+C	-C	Supplier		+S	-s	Ortho-Cresol Novolac R	29690-82-2		0.5208	mg			
						+C	-C	Supplier		+S	-s	Phenolic Resin (Novola	9003-35-4		0.29295	mg			
		+M -M	Plating	0.8	mg	+C	-C	Supplier		+S	-S	Tin (Sn)	7440-31-5		0.8	mg			
		+M -M	Wire Bond	0.145	mg	+C	-C	Supplier		+S	-S	Palladium (Pd)	7440-05-3		0.001885	mg			
			_	•	•	+C	-C	Supplier		+S	-s	Copper (Cu)	7440-50-8		0.143115	mg			

## **Homogeneous Material Composition Declaration for Electronic Products**

Requester Instructions: The requester can optionally include additional substance categories and substances that must be declared for the item on this form. This is in addition to JIG Level A and JIG Level B substances already included for the JIG section. The requester should enter additional substance categories and then enter name of the substance and the CAS number. These entries will be accessible to the supplier via Level drop-down by selecting "Requester". Use the Load "Requester" and Test button to view the entries, just select "Requester" in the Level drop-down list in the previous section.

			Substance Category			Substance	CAS		
-	+C	-C		+S	-S				