	CONNECTING CS INDUSTRIES CS INDUSTRIES MALETING CS INDUSTRIES MALETIAL COMP	PC, Bannockb	ourn, Illinois. A	All rights reserved untions.	nder both	This docume level parts, th	ent is a declarat	tion of th encompa	ne substances asses all low	within the er level mat	manufacture erials for wh	er listed ite hich the ma	em. Note: if anufacturer	the item is an as has engineering	ssembly with lowe responsibility.
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					eous Materia	als and Mfg Information				
Supplie	r Information														
Company name* Comp				ompany unique ID			Unique ID Authority					Response Date*			
onsemi											2024-04-25				
Contact N	Jame	Title - Contact]	Phone - Contact*					Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*		Title - Representative			1	Phone - Representative*				Email - Representative*				
Product-l	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
			Number Mfr Item Name				Effective Date	ve Date Version Manufacturing Sit		ing Site	W	/eight*	UOM	Unit Type	
			IPM SPM45 600	PM SPM45 600V 5A			2024-04-25 C		СРА		1	1113.298	mg	Each	
/anufa	cturing Proccess Informa	tion													
	Terminal Plating / Grid Array Material		Ferminal Base Alloy J-STD-020 M		J-STD-020 MSI	L Rating	Peak Process Body Temperat		ure Max Time at Peak Terr		Temperatu	re Numbe	er of Reflow Cyc	cles	
Matte Tin (Sn) - annealed		CU Alloy NA			0 C		30		second	ls 3					
omments	5														
or 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), Diisobutyl phthalate (DIBP).										
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company	ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in ifies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg	nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co	e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of						
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	37.4431	mg	Supplier	Silicon (Si)	7440-21-3		37.4431	mg
Die Attach	2.3868	mg	Supplier	Silver (Ag)	7440-22-4		1.7901	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.5967	mg
Die Attach Solder	43.092	mg	Supplier	Silver (Ag)	7440-22-4		1.0773	mg
			А	Lead (Pb)	7439-92-1	7a	39.8601	mg
			Supplier	Tin (Sn)	7440-31-5		2.1546	mg
Heat Sink Attach	23.1894	mg	Supplier	Dicyandiamine	461-58-5		1.6233	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.8552	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		19.711	mg
Lead Frame	3510.64	mg	Supplier	Silver (Ag)	7440-22-4		884.6813	mg
			Supplier	Copper (Cu)	7440-50-8		2625.9585	mg
Iold Compound-Black	6269.7	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		423.2048	mg
			Supplier	Carbon Black (C)	1333-86-4		31.3485	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5391.9424	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		423.2048	mg
Plating	60.7986	mg	Supplier	Tin (Sn)	7440-31-5		60.7986	mg
Substrate	1138.32	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1104.1704	mg
			Supplier	Silicon Dioxide (SiO2)	99493-55-7		11.3832	mg
			Supplier	Cobalt Oxide (CoO)	1307-96-6		11.3832	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		11.3832	mg
Thermistor	4.4737	mg	Supplier	Silver (Ag)	7440-22-4		0.3579	mg
			Supplier	Tin (Sn)	7440-31-5		0.076	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		1.1631	mg
			Supplier	Palladium (Pd)	7440-05-3		0.1521	mg
			Supplier	Iron Trioxide (Fe2O3)	1309-37-1		0.0002	mg
			В	Nickel (Ni)	7440-02-0		0.0313	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		0.7694	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		1.9236	mg
Wire Bond - Al	22.005	mg	Supplier	Aluminum (Al)	7429-90-5		22.005	mg
Wire Bond - Cu	1.2488	mg	Supplier	Palladium (Pd)	7440-05-3		0.025	mg
			Supplier	Copper (Cu)	7440-50-8		1.2238	mg