	© Copyright 2005. IP	C, Bannockb	urn, Illinois. A	Il rights reserved un ntions.	nder both	This docume level parts, t	ent is a declarat he declaration e	ion of the su encompasse	ubstances s all lower	within the manufactur r level materials for wi	er listed i hich the n	tem. Note: i nanufacturer	f the item is an as r has engineering	sembly with lower responsibility.
1752-21.1					Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				als and Mfg Information				
Supplier Ir	nformation													
Company name* C			Company unique ID				Unique ID Authority				Response Date*			
onsemi											2025-08-02			
Contact Name	e	Title - Contact				Phone - Contact*				Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Authorized R	epresentative*	Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env	-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Re	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	e Date Version Manufacturing Site		Anufacturing Site		Weight*	UOM	Unit Type
		2SC3648	2SC3648S-TD-E BIP NP		IP NPN 0.7A 160V		2025-08-02		C	CNG		51.38	mg	Each
Manufactu	ring Proccess Informati	ion												
Ter	Terminal Plating / Grid Array Material Ter			erminal Base Alloy J-STD-020 MSI		Rating	Peak Process Body Temperatu		emperatur	ure Max Time at Peak Temp		ure Numb	per of Reflow Cyc	les
contains Bi CU All			U Alloy	loy 1			260 C 30			30	seconds 3			
Comments														
evel 1 - maxi	mum time at peak temperatur	e during sol	dering is 10-3	0 seconds										
for more info	ormation regarding material c	omposition	please refer to	page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(Pb), Mercury (Hg), Hexavalent Chro	S 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 Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl alate (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 iffies 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 temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).											
Exemption List Version	EL-2011/534/EU										
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	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	0.33	mg	Supplier	Silicon (Si)	7440-21-3		0.33	mg
Die Attach Solder	0.15	mg	Supplier	Silver (Ag)	7440-22-4		0.0038	mg
			А	Lead (Pb)	7439-92-1	7a	0.1388	mg
			Supplier	Tin (Sn)	7440-31-5		0.0075	mg
Lead Frame	22.4	mg	Supplier	Silver (Ag)	7440-22-4		0.0986	mg
			Supplier	Tin (Sn)	7440-31-5		0.0314	mg
			Supplier	Copper (Cu)	7440-50-8		22.2701	mg
Mold Compound-Black	27.65	mg		Brominated epoxy resin	proprietary data		0.3871	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.2443	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.2488	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2765	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		20.7375	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		4.7005	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0553	mg
lating	0.77	mg	В	Bismuth (Bi)	7440-69-9		0.0046	mg
			Supplier	Tin (Sn)	7440-31-5		0.7654	mg
Wire Bond - Au	0.08	mg	Supplier	Gold (Au)	7440-57-5		0.08	mg