

		<b>Material Composition Declaration</b> Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.		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.							
1752-2 1.1		IPC Web Site for Information on IPC-1752 Standard <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>		<b>Form Type *</b> <b>Distribute</b>		<b>Declaration Class *</b> <b>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information</b>					
<b>Supplier Information</b>											
<b>Company Name *</b> <b>National Semiconductor</b>		Company Unique ID NATSEMI		Unique ID Authority 04-147-2986		<b>Response Date *</b> 11-11-2011		Response Document ID			
Contact Name * Lorena Dudman		Title - Contact Product Stewardship Eng.		Phone - Contact * 1-408-721-8180		Email - Contact * Green.Project@nsc.com					
Authorized Representative * Lorena Dudman		Title - Representative Product Stewardship Eng.		Phone - Representative * 1-408-721-8180		Email - Representative * Green.Project@nsc.com		Supplier Comments or URL for Additional Information <a href="http://www.national.com/analog/quality/green">http://www.national.com/analog/quality/green</a>			
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
		LM3218SEE NOPB		LM3218SEE NOPB		11-11-2011			33.52	mg	Each
Alternate Recommendation						Alternate Item Comments					
<b>Manufacturing Process Information</b>											
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	
<b>NiAu</b>		<b>Not Applicable</b>		<b>3</b>		<b>260 C</b>		<b>40 seconds</b>		<b>4</b>	
<b>Comments</b>											
<b>"Does not contain PFOS."</b>											

<b>RoHS Material Type Declaration</b>	<b>Declaration Type * Custom</b>
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<b>RoHS Directive 2002/95/EC</b>	<b>RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium</b>
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Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.

1. National products designated "ROHS Compliant" comply with the European Unions Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). Certain National products contain lead in RoHS exempt applications 7(a) or 7(c)-I.
2. National products do not contain and are not manufactured with ozone depleting compounds.
3. National products do not contain substances identified by the European Chemical Agency ("ECHA") as substances of very high concern ("SVHC") per REACH Regulation (EC) No 1907/2006. National also complies with use restrictions as stipulated in Annex XVII of REACH.
4. National products are manufactured in conformance with National specifications (SC)CSP-9-111C1 Supplier Environmental Requirements for Materials and Products and (SC)CSP-9-111S2 Banned and Reportable Substances.
5. National's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.

National has taken commercially reasonable steps to provide representative and accurate information but may not have independently verified information provided or conducted chemical analysis of incoming materials. Equivalent compliant materials may have been substituted for those stated herein. Material concentrations are the maximum expected concentration of the substance in the device and may not represent the actual concentration. National and its suppliers consider certain limited information to be confidential and thus CAS numbers and other limited information may not be available for release. National's Standard Terms and Conditions of Sale apply to any issue arising out of or in connection with the information provided herein unless otherwise provided by a written contract signed by both parties.

NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION

<b>RoHS Declaration *</b> 1 - Item(s) does not contain RoHS restricted substances per the definition above	<b>Supplier Acceptance *</b>	<b>Accepted</b>
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**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 and above and choose all applicable exemptions.

<b>Declaration Signature</b>
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<b>Supplier Signature</b>	 John L. Conn Vice President Quality	<b>John L. Conn Vice President Quality</b>
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## Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name	Homogeneous Material	Weight	Unit of Measure	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance	PPM
	Substrate	30.270	mg	Requester		Fe2O3	1309-37-1		15.671	mg		517,700
				Requester		Ag	7440-22-4		5.788	mg		191,200
				Requester		ZnO	1314-13-2		4.041	mg		133,500
				Requester		NiO	1313-99-1		2.618	mg		86,500
				Requester		CuO	1317-38-0		1.386	mg		45,800
				Requester		ZrO2	1314-23-4		0.666	mg		22,000
				Requester		Ni	7440-02-0		0.097	mg		3,200
				Requester		Au	7440-57-5		0.003	mg		100
Chip		1.577	mg	Requester		Si	7440-21-3		1.568	mg		994,000
				Requester		Al	7429-90-5		0.009	mg		6,000
Terminals		1.200	mg	Requester		Ag	7440-22-4		0.997	mg		831,200
				Requester		Ni	7440-02-0		0.160	mg		133,300
				Requester		Frits	65997-18-4		0.038	mg		31,500
				Requester		Au	7440-57-5		0.005	mg		4,000
Bumps		0.418	mg	Requester		Sn	7440-31-5		0.411	mg		983,000
				Requester		Ag	7440-22-4		0.005	mg		12,000
				Requester		Cu	7440-50-8		0.002	mg		5,000
Passivation		0.047	mg	Requester		Benzocyclobutene	694-87-1		0.047	mg		1,000,000
Underbump Metallization		0.006	mg	Requester		Cu	7440-50-8		0.004	mg		564,000
				Requester		Al	7429-90-5		0.001	mg		212,000
				Requester		Ni	7440-02-0		0.001	mg		207,000
				Requester		V	7440-62-2		0.000	mg		17,000