

		<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
		DAC101C081CIMKXNOPB		DAC101C081CIMKXNOPB		11-11-2011			12.96	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>NiPdAu</b>		<b>CU Alloy</b>		<b>1</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
	Plastic	6.436	mg	Requester		SiO2	60676-86-0		5.728	mg		890,000
				Requester		Epoxy Resin	25928-94-3		0.515	mg		80,000
				Requester		Mg(OH)2	1309-42-8		0.193	mg		30,000
	Leadframe	5.429	mg	Requester		Cu	7440-50-8		5.290	mg		974,500
				Requester		Fe	7439-89-6		0.130	mg		24,000
				Requester		Zn	7440-66-6		0.007	mg		1,200
				Requester		P	7723-14-0		0.002	mg		300
	Chip	0.742	mg	Requester		Si	7440-21-3		0.738	mg		994,000
				Requester		Al	7429-90-5		0.004	mg		6,000
	Die Attach	0.145	mg	Requester		Ag	7440-22-4		0.109	mg		750,000
				Requester		Epoxy Resin	25928-94-3		0.036	mg		250,000
	LeadFinish	0.131	mg	Requester		Ni	7440-02-0		0.118	mg		900,000
				Requester		Pd	7440-05-3		0.011	mg		85,000
				Requester		Au	7440-57-5		0.002	mg		15,000
	Wires	0.076	mg	Requester		Au	7440-57-5		0.076	mg		1,000,000