Material Composition Declaration

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 http://www.ipc.org/IPC-175x	**Form Type * Distribute**	**Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information**

Supplier Information

Company Name * National Semiconductor	Company Unique ID NATSEMI	Unique ID Authority 04-147-2986	**Response Date * 01-18-2012**	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 http://www.national.com/analog/quality/green	

	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	**Weight ***	UOM	Unit Type
		LM3886TF NOPB	LM3886TF NOPB	01-18-2012			**5995.06**	mg	Each

Alternate Recommendation				Alternate Item Comments	

Manufacturing Process 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
Sn	**CU Alloy**	**1**	**NA C**	**NA seconds**	**NA**

Comments

"Does not contain PFOS."

RoHS Material Type Declaration	Declaration Type * Custom
RoHS Directive 2002/95/EC	**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**

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. Nationals 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. Nationals 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.

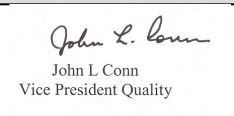
NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION

RoHS Declaration *	**4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions**	**Supplier Acceptance ***	**Accepted**

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.

7(a). Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85 % by weight or more lead)

Declaration Signature

Supplier Signature 

John L. Conn Vice President Quality

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
	Chip	6.650	mg	Requester		Si	7440-21-3		6.610	mg		994,000
				Requester		Al	7429-90-5		0.040	mg		6,000
	Int. LeadFinish	4.450	mg	Requester		Ag	7440-22-4		4.450	mg		1,000,000
	Leadframe	3940.010	mg	Requester		Cu	7440-50-8		3927.008	mg		996,700
				Requester		Zn	7440-66-6		7.880	mg		2,000
				Requester		Fe	7439-89-6		3.940	mg		1,000
				Requester		P	7723-14-0		1.182	mg		300
	Ext. LeadFinish	33.120	mg	Requester		Sn	7440-31-5		33.120	mg		1,000,000
	Plastic	2004.340	mg	Requester		SiO2	60676-86-0		1543.342	mg		770,000
				Requester		Epoxy Resin	25928-94-3		408.885	mg		204,000
				Requester		Sb2O3	1309-64-4		40.087	mg		20,000
				Requester		Brominated Epoxy	40039-93-8		12.026	mg		6,000
	Die Attach	2.741	mg	Requester		Pb	7439-92-1		2.617	mg		955,000
				Requester		Ag	7440-22-4		0.069	mg		25,000
				Requester		Sn	7440-31-5		0.055	mg		20,000
	Lead Plating	2.660	mg	Requester		Ni	7440-02-0		2.660	mg		1,000,000
	Wires	1.090	mg	Requester		Au	7440-57-5		1.090	mg		1,000,000