

		Material Composition Declaration 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 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	
		ADC10D1000CCMLSMCP121	ADC10D1000CCMLSMCP121	01-18-2012			12742.33	mg	Each	
	Alternate Recommendation				Alternate Item Comments					
Manufacturing Process Information										
Terminal Plating / Grid Array Material SnPb		Terminal Base Alloy Not Applicable		J-STD-020 MSL Rating 1		Peak Process Body Temperature NA C		Max Time at Peak Temperature NA seconds		Number of Reflow Cycles 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		
<p>Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.</p> <ol style="list-style-type: none"> 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. <p>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.</p> <p>NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION</p>			
RoHS Declaration *	2 - Item(s) contains RoHS restricted substances per the definition above and is not under exemption	Supplier Acceptance *	Accepted
<p>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.</p>			
Declaration Signature			
Supplier Signature	 John L. Conn Vice President Quality		
	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
	Lid Attach	72.900	mg	Requester		Au	7440-57-5		58.320	mg		800,000
				Requester		Sn	7440-31-5		14.580	mg		200,000
	Ceramic Body	6880.000	mg	Requester		Al2O3	1344-28-1		6247.728	mg		908,100
				Requester		SiO2	60676-86-0		529.072	mg		76,900
				Requester		Cr2O3	1308-38-9		103.200	mg		15,000
	Seal Ring	49.400	mg	Requester		Ag	7440-22-4		35.568	mg		720,000
				Requester		Cu	7440-50-8		13.832	mg		280,000
	Chip	46.900	mg	Requester		Si	7440-21-3		46.619	mg		994,000
				Requester		Al	7429-90-5		0.281	mg		6,000
	Die Attach	40.800	mg	Requester		Ag	7440-22-4		32.640	mg		800,000
				Requester		Lead Borate Glass	65997-18-4		8.160	mg		200,000
	Metallization	370.000	mg	Requester		W	7440-33-7		337.107	mg		911,100
				Requester		Mo	7439-98-7		32.893	mg		88,900
	Heat Sink	2080.000	mg	Requester		W	7440-33-7		1872.000	mg		900,000
				Requester		Cu	7440-50-8		208.000	mg		100,000
	Pins	1709.000	mg	Requester		Pb	7439-92-1		1097.178	mg		642,000
				Requester		Cu	7440-50-8		336.673	mg		197,000
				Requester		Sn	7440-31-5		275.149	mg		161,000
	Ext. LeadFinish	140.000	mg	Requester		Sn	7440-31-5		88.200	mg		630,000
				Requester		Pb	7439-92-1		51.800	mg		370,000
	Lid	1250.000	mg	Requester		Fe	7439-89-6		672.500	mg		538,000
				Requester		Ni	7440-02-0		372.500	mg		298,000
				Requester		Co	7440-48-4		205.000	mg		164,000

Plating	102.199	mg	Requester		Au	7440-57-5		59.204	mg		579,300
			Requester		Ni	7440-02-0		32.428	mg		317,300
			Requester		Co	7440-48-4		9.903	mg		96,900
			Requester		P	7723-14-0		0.664	mg		6,500
Wires	1.130	mg	Requester		Al	7429-90-5		1.119	mg		990,000
			Requester		Si	7440-21-3		0.011	mg		10,000