

<b>Company</b>		<b>DUNS#</b>	<b>URL For Additional Information</b>
National Semiconductor		04-147-2986	<a href="http://www.national.com/analog/quality/green">http://www.national.com/analog/quality/green</a>

<b>Contact</b>	<b>Title</b>	<b>Phone</b>	<b>Email</b>
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<b>Part Number</b>	<b>MSL Rating</b>	<b>Peak Body Temp C</b>	<b>MaxTime(Sec)</b>	<b>Cycles</b>	<b>Unit Type</b>
LM399AH	1	NA	NA	NA	Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant.	<b>Weight (mg)</b>	Does NOT Contain Halogens
01-17-2012		701.16	

### Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Leads	79.700	Fe	7439-89-6	43.038	540,000	61,381
		Ni	7440-02-0	23.113	290,000	32,964
		Co	7440-48-4	13.549	170,000	19,324
Lid	72.500	Ni	7440-02-0	72.500	1,000,000	103,400
Glass	7.200	SiO2	60676-86-0	5.803	806,000	8,276
		B2O3	1303-86-2	0.936	130,000	1,335
		Na2O	12401-86-4	0.288	40,000	411
		Al2O3	1344-28-1	0.173	24,000	247
Thermal Shield	420.000	PBT	26062-94-2	294.000	700,000	419,306
		SiO2	60676-86-0	101.556	241,800	144,840
		B2O3	1303-86-2	16.380	39,000	23,361
		Na2O	12401-86-4	5.040	12,000	7,188
Plating	4.900	Au	7440-57-5	4.900	1,000,000	6,988
		Fe	7439-89-6	61.830	540,000	88,183
		Ni	7440-02-0	33.205	290,000	47,357
		Co	7440-48-4	19.465	170,000	27,761
Chip	1.780	Si	7440-21-3	1.769	994,000	2,523
		Al	7429-90-5	0.011	6,000	16
Die Attach	0.569	Au	7440-57-5	0.558	980,000	796
		Si	7440-21-3	0.011	20,000	16
Wires	0.009	Al	7429-90-5	0.009	1,000,000	13

**Note:** The device content disclosed herewith is approximate and is based on engineering estimates only. It has not been verified through analytical testing.

Additionally, the following should be noted:

- One or more dopant materials may be present in the silicon die at sub-ppm levels to provide semiconductor properties.
- Epoxy resin components listed are generic and may or may not be the specific compound used, which is considered proprietary.

### RoHS Material Composition Declaration

<b>RoHS Directive 2002/95/EC</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
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Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.

- 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)-1.
- National products do not contain and are not manufactured with ozone depleting compounds.
- 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.
- 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.
- 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. 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.

*John L. Conn*  
John L. Conn  
Vice President Quality

**John L. Conn**  
**Vice President Quality**

**Banned Substance Monitoring**

<b>Part Number</b>	<b>Document Date</b>
LM399AH	01-17-2012

European RoHS Compliant.

China RoHS Compliant.

<b>Item#</b>	<b>Material</b>	<b>Cd</b>	<b>CrVI</b>	<b>Pb</b>	<b>Hg</b>	<b>PBB</b>	<b>PBDE</b>	<b>Cl</b>	<b>Br</b>	<b>Ref#</b>
1	CHIP	<1	<1	<1	<30	<10	<10	<75	<50	1000
2	HEADER	<2	<2	<2	<2	<5	<5	N/A	N/A	672
3	PREFORM	<2	N/D	<2	<2	<5	<5	N/A	N/A	75
4	WIRE	<2	N/D	<2	<2	<5	<5	N/A	N/A	604

\* Cd: Cadmium, CrVI: Hexavalent Chromium, Pb: Lead, Hg: Mercury, NA: Not Applicable

\* Unless otherwise noted, units are in PPM (parts-per-million)

<b>Ref#</b>	<b>3rd Party Analysis</b> (available upon request, subject to a non-disclosure agreement)
1000	Analysis on 01/24/2011 by Balazs as per Report# 11-00322-00
672	Analysis on 04/29/2011 by SGS per Report# LPCI/04430(B)/11
75	Analysis on 04/29/2011 by SGS per Report# LPCI/04464(B)/11
604	Analysis on 04/29/2011 by SGS per Report# LPCI/04451(B)/11