

<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>
LM2937ET-10 NOPB	1	260	40	4	Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant.	<b>Weight (mg)</b>	Contains Halogens (Flame Retardant)
12-08-2009		1991.81	

### Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Leadframe	1317.26	Cu	7440-50-8	1315.205	998,440	660,308
		Sn	7440-31-5	1.976	1,500	992
		P	7723-14-0	0.079	60	40
Plastic	647.72	SiO2	60676-86-0	448.352	692,200	225,098
		Epoxy Resin	25928-94-3	187.839	290,000	94,306
		Sb2O3	1309-64-4	5.829	9,000	2,926
		Brominated Epoxy	40039-93-8	5.700	8,800	2,862
Ext. LeadFinish	10.98	Sn	7440-31-5	10.980	1,000,000	5,513
Lead Plating	9.07	Ni	7440-02-0	9.070	1,000,000	4,554
Chip	3.96	Si	7440-21-3	3.936	994,000	1,976
		Al	7429-90-5	0.024	6,000	12
Int. LeadFinish	1.52	Ag	7440-22-4	1.520	1,000,000	763
Die Attach	1.17	Sn	7440-31-5	0.761	650,000	382
		Ag	7440-22-4	0.293	250,000	147
		Sb	7440-36-0	0.117	100,000	59
Wires	0.12	Au or Cu	7440-57-5	0.124	1,000,000	62

**Note:** The device content disclosed herewith is approximate and is based on engineering estimates only. It has not been verified through analytical. 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 5, 7a or 7c.
- 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").
- 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.

 Gerry Edwards  
Vice President Quality

**Banned Substance Monitoring**

<b>Part Number</b>	<b>Document Date</b>
LM2937ET-10 NOPB	12-08-2009

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	NA	NA	1000
2	COMPOUND	< 2	< 2	< 2	< 2	< 5	< 5	< 50	< 50	637
3	EXTLF	< 2	< 2	23	< 2	NA	NA	NA	NA	595
4	FRAME	< 2	< 2	< 2	< 2	NA	NA	NA	NA	509
5	PREFORM	< 2	< 2	< 2	< 2	NA	NA	NA	NA	560
6	WIRE	< 2	< 2	< 2	< 2	NA	NA	NA	NA	75

\* 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 03/02/2009 by BALAZ as per Report# E008516J #01/LMP7300D6/VIP050L23
637	Analysis on 03/01/2009 by SGS per Report# 04522/09
595	Analysis on 03/01/2009 by SGS per Report# 04501/09
509	Analysis on 03/01/2009 by SGS per Report# 04550/09
560	Analysis on 03/01/2009 by SGS per Report# 04517/09
75	Analysis on 03/01/2009 by SGS per Report# 04531/09