

<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>
LM2596T-3.3 LF02	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		1880.58	

### Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Lead Plating	8.630	Ni	7440-02-0	8.630	1,000,000	4,589
Plastic	630.821	SiO2	60676-86-0	561.430	890,000	298,541
		Epoxy Resin	25928-94-3	50.466	80,000	26,835
		Mg(OH)2	1309-42-8	18.925	30,000	10,063
Chip	3.310	Si	7440-21-3	3.290	994,000	1,749
		Al	7429-90-5	0.020	6,000	11
Ext. LeadFinish	13.800	Sn	7440-31-5	13.800	1,000,000	7,338
Leadframe	1221.300	Cu	7440-50-8	1219.395	998,440	648,415
		Sn	7440-31-5	1.832	1,500	974
		P	7723-14-0	0.073	60	39
Int. LeadFinish	1.520	Ag	7440-22-4	1.520	1,000,000	808
Die Attach	0.991	Sn	7440-31-5	0.644	650,000	342
		Ag	7440-22-4	0.248	250,000	132
		Sb	7440-36-0	0.099	100,000	53
Wires	0.205	Au or Cu	7440-57-5	0.205	1,000,000	109

**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)-I.
- 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  
Vice President Quality

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Vice President Quality

**Banned Substance Monitoring**

<b>Part Number</b>	<b>Document Date</b>
LM2596T-3.3 LF02	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	COMPOUND	<2	<2	<2	<2	<5	<5	<50	<50	637
3	EXTLF	<2	N/D	23	<2	<5	<5	<50	<50	595
4	FRAME	<2	N/D	<2	<2	<5	<5	N/A	N/A	719
5	PREFORM	<2	<2	<2	<2	<5	<5	N/A	N/A	560
6	WIRE	<2	N/D	<2	<2	<5	<5	<50	<50	562

\* 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
637	Analysis on 04/29/2011 by SGS per Report# LPCI/04381(B)/11
595	Analysis on 04/29/2011 by SGS per Report# LPCI/04369(B)/11
719	Analysis on 04/29/2011 by SGS per Report# LPCI/04400(B)/11
560	Analysis on 04/29/2011 by SGS per Report# LPCI/04420(B)/11
562	Analysis on 04/29/2011 by SGS per Report# LPCI/04416(B)/11