杏询I M1	894MX供应商		<u> 捷多邦、专业PCB打样工厂,24小时加急出货</u>					
Compar		National	DUNS#	URL for Additional Information http://www.national.com/quality/green/				
National Semic	conductor	Semiconductor The Sight & Sound of Information	<mark>04-147-</mark> 2986					
Contact	and CP	Title	Phone		Email			
Steve Osborne	Steve Osborne Product Ecology Engineer			Green.Project@nsc.com				
Part Numb	er	MSL Rating	Peak Body Temp C	MaxTime (Sec)	Cycles	Unit Type		
LM1894MX		1	235	30	4	Each		
Document Date	Contains Le	ead(Pb) - NOT Europea	n RoHS Compliant.	Weight (mg)	Does NOT Con	tain Halogens		
4-May-2008		NOT China RoHS Cor	130.00	(Flame Reta				
Homo	ogeneous	Material Composit	ion Declaration f	or Electronic	Products			
ltem	Weight (mg)	Component	CAS#	Weight (mg)	ltem-ppm	Part-ppm		
Plastic	79.56	SiO2	60676-86-0	70.808	890,000	544,680		
		Epoxy Resin	25928-94-3	6.365	80,000	48,960		
		Mg(OH)2	1309-42-8	2.387	30,000	18,360		
Leadframe	42.69 Cu		7440-50-8	41.601	974,500	320,011		
- 45		Fe	7439-89-6	1.025	24,000	7,881		
190 74 -1		Zn	7440-66-6	0.051	1,200	394		
		Р	7723-14-0	0.013	300	99		
Ext. LeadFinish	3.46 Sn		7440-31-5	2.941	850,000	22,623		
		Pb	7439-92-1	0.519	150,000	3,992		
Chip	3.25 Si		7440-21-3	3.231	994,000	24,850		
		AI	7429-90-5	0.020	6,000	150		
Die Attach	0.36 Ag		7440-22-4	0.270	750,000	2,077		
		Epoxy Resin	25928-94-3	0.090	250,000	692		
Wires	0.35	Au	7440-57-5	0.350	1,000,000	2,692		
Int. LeadFinish	0.33	Ag	7440-22-4	0.330	1,000,000	2,538		

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:

1. One or more dopant materials may be present in the silicon die at sub-ppm levels to provide semiconductor properties.

2. Epoxy resin components listed are generic and may or may not be the specific compound used, which is considered proprietary.

RoHS Material Composition Declaration

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 Union's Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). These products do not contain Joint Industry Guide (JIG) -101 Level A substances above threshold limits, except lead in RoHS exempt applications 5, 7a and 7c. These products do not contain perfluorooctane sulfonates (PFOS).

2. 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 List of Banned and Reportable Substances, which are available at <u>www.national.com/quality/green/</u>.

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 substances 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 issues 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.





Banned Substance Monitorin						
Part Number	Document Date					
LM1894MX	4-May-2008					

Contains Lead(Pb) - NOT European RoHS Compliant.					NOT China RoHS Compliant					
Item#	Material	Cd	CrVI	Pb	Hg	PBB	PBDE	CI	Br	Ref #
1	CHIP	<1	<1	<1	<30	<10	<10	NA	NA	1000
2	COMPOUND	<2	<5	<5	<1	<10	<10	<20	<20	637
3	EPOXY	<2	<5	<5	<1	<10	<10	160	<20	32
4	EXTLF	<2	<2	150000	<2	NA	NA	NA	NA	56
5	FRAME	0	0	0	0	0	0	0	0	53
6	WIRE	<2	<2	<2	<2	NA	NA	NA	NA	132

* Cd: Cadmium, CrVI: Hexavalent Chromium, Pb: Lead, Hg: Mercury, ND: Not Detected

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

3rd Party Analysis (available upon request, subject to a non-disclosure agreement)
Analysis on 02/13/2008 by Balazs Analytical Services-Freemont CA per Report# 08-00823-00
Analysis on 03/14/2008 by ALS per Report# ATJB/0791BS/2008
Analysis on 03/14/2008 by ALS per Report# ATJB/0807BS/2008
Analysis on 03/14/2008 by SGS per Report# LPCI/03627/08
#N/A
Analysis on 04/09/2008 by SGS per Report# LPCI/06217/08



《电子信息产品污染控制管理办法》的声明

"Electronic Information Products Pollution Control Measures" Statement

China RoHS Declaration

产品名称 Product Name LM1894MX

		有毒有害物 质或元素 Toxic and harmful substances or elements							
部件名称 Part	$\overline{}$	铅 (Pb)	汞 (Hg)	骤 (Cd)	六价 铬 (Cr6+)	多 溴联苯 (PBB)	多 溴二苯醚 (PBDE)		
集成 电路 Integrated Circuit		Х	0	0	0	0	0		

O:表示<mark>该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006</mark> 标准规定的限量要求以下。

O : Indicates that this hazardous substance contained in all homogeneous materials of this part is below the limit requirement in SJ/T 11363-2006.

X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。

X : Indicates that this hazardous substance contained in at least one of the homogeneous materials of this part is above the limit requirement in SJ/T 11363-2006.

美国国家半**导体的产品不会含有镉、汞、六价铬、多溴联苯(PBB)** 和二苯**醚(PBDE)**。

National Semiconductor's products will not contain cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and diphenyl ether (PBDE).



环保使用期限(epup) 是指以符号在这里展出. 环保使用期限(epup) 的有效期只有当产品使用范围以内的数据表中的规格.

The Environmental Protection Use Period (EPUP) is defined by the symbol shown here. The Environmental Protection Use Period (EPUP) is valid only when product is used within the limits of the data sheet specifications.