

PART INFORMATION		
Mfg Item Number		MRF6S24140HR3
Mfg Item Name		NI-880
SUPPLIER		
Company Name		Freescale Semiconductor Inc
Company Unique ID		14-141-7928
Response Date		2018-06-25
Response Document ID		0419K10617D002A1.23
Contact Name		Freescale Semiconductor Inc
Contact Title		Product Technical Support
Contact Phone		1-800-521-6274
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Authorized Representative		Daniel Binyon
Representative Title		EPP Customer Response
Representative Phone		512-895-3406
Representative Email		eppanlst@freescale.com
URL for Additional Information		www.freescale.com
DECLARATION		
EU RoHS		Yes
Pb Free		Yes
HalogenFree		Yes
Plating Indicator		e4
EU RoHS Exemption(s)		
MANUFACTURING		
Mfg Item Number		MRF6S24140HR3
Mfg Item Name		NI-880
Version		ALL
Weight		9.733700
UoM		g
Unit Volume		EACH
J-STD-020 MSL Rating		
Peak Processing Temperature		260 C
Max Time at Peak Temperature		40 seconds
Number of Processing Cycles		3

RoHS	
RoHS Directive	2011/65/EU
RoHS Definition	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) of 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 of Cadmium
RoHS Legal Definition	Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part(s) identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a RoHS restricted substance) in excess of the applicable quantity limit identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Companys remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	1 - Item(s) do not contain RoHS restricted substances per the definition above
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
List of Freescale Accepted Exemptions	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight  6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight 6(c) : Copper alloy containing up to 4% lead by weight 7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) 7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications 7(c)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound 7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher 7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC 7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors 15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%		ARTICLEPPM	ARTICLE%
Cap/Cover	1.4456						g					
Cap/Cover		Metals	Aluminum Oxides (Al2O3)	1344-28-1		1.3646464	g	944000	94.4		140198	14.0198
Cap/Cover		Solvents, additives, and other materials	Calcium monoxide	1305-78-8		0.007228	g	5000	0.5		742	0.0742
Cap/Cover		Metals	Magnesium-oxide	1309-48-4		0.014456	g	10000	1		1485	0.1485
Cap/Cover		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.057824	g	40000	4		5940	0.594
Cap/Cover		Metals	Titanium (IV) Oxide	13463-67-7		0.0014456	g	1000	0.1		148	0.0148
Bonding Wire, Aluminum	0.0918						g					
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0918	g	1000000	100		9431	0.9431
Silicon Semiconductor Die	0.0038						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000076	g	20000	2		7	0.0007
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.003724	g	980000	98		382	0.0382
Silicon Semiconductor Die	0.0038						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000076	g	20000	2		7	0.0007
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.003724	g	980000	98		382	0.0382
Header Assembly	8.1849						g					
Header Assembly		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.27352299	g	33418	3.3418		28100	2.81
Header Assembly		Metals	Cobalt, metal	7440-48-4		0.0066134	g	808	0.0808		679	0.0679
Header Assembly		Metals	Copper, metal	7440-50-8		3.65233156	g	446228	44.6228		375225	37.5225
Header Assembly		Metals	Gold, metal	7440-57-5		0.11915577	g	14558	1.4558		12241	1.2241
Header Assembly		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00031921	g	39	0.0039		32	0.0032
Header Assembly		Solvents, additives, and other materials	Silicon	7440-21-3		0.00757103	g	925	0.0925		777	0.0777
Header Assembly		Metals	Iron, metal	7439-89-6		0.14524105	g	17745	1.7745		14921	1.4921
Header Assembly		Metals	Magnesium, metal	7439-95-4		0.00511556	g	625	0.0625		525	0.0525
Header Assembly		Metals	Manganese, metal	7439-96-5		0.00416611	g	509	0.0509		428	0.0428
Header Assembly		Metals	Molybdenum, metal	7439-98-7		3.72595474	g	455223	45.5223		382802	38.2802
Header Assembly		Nickel (external applications only)	Nickel	7440-02-0		0.18791712	g	22959	2.2959		19305	1.9305
Header Assembly		Metals	Silver, metal	7440-22-4		0.05699146	g	6963	0.6963		5855	0.5855
Silicon Semiconductor Die	0.0038						g					
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00003876	g	10200	1.02		3	0.0003
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00007522	g	19796	1.9796		7	0.0007
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00368602	g	970004	97.0004		378	0.0378

LINKS	
MCD LINK	
NXP website	<a href="http://www.nxp.com">http://www.nxp.com</a>
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf</a>
China RoHS	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY</a>
REACH signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf</a>
ELV signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf</a>
Conflict Minerals statement	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf</a>
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX</a>
FAQ	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ</a>
Technical Service Request	<a href="http://www.nxp.com/support/sales-and-support:SUPPORTHOME">http://www.nxp.com/support/sales-and-support:SUPPORTHOME</a>
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	<a href="http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf">http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf</a>

IPC1752 XML LINKS

[http://www.freescale.com/mcds/MRF6S24140HR3\\_IPC1752\\_v11.xml](http://www.freescale.com/mcds/MRF6S24140HR3_IPC1752_v11.xml)

[http://www.freescale.com/mcds/MRF6S24140HR3\\_IPC1752A.xml](http://www.freescale.com/mcds/MRF6S24140HR3_IPC1752A.xml)