SUPPLIER

URL for Additional Information

EU RoHS Exemption(s)

PART INFORMATION

Mfg Item Number

Mrg Item Name

NI-780

Company Name
Company Unique ID
Response Date
Response Document ID
Contact Name
Contact Title

Freescale Semiconductor Inc
Freescale Semiconductor Inc
Freescale Semiconductor Inc
Product Technical Support

Contact Title
Contact Phone
Contact Email
Contact Email
Authorized Representative
Representative Title
Representative Phone
Representative Phone
Representative Email

Trocssade Centical Representation in Product Technical Support
1-800-521-6274
Support@freescale.com
Daniel Binyon
EPP Customer Response
512-895-3406
Representative Email

DECLARATION

EU ROHS
Pb Free
Yes
HalogenFree
Plating Indicator

Yes

64

www.freescale.com

MANUFACTURING Mfg Item Number MRF8S9100HR5 Mfg Item Name NI-780 Version ALL Weight 6.410400 UoM 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, 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 Co								
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								
Exemptions	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								

Homogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
ap/Cover	0.6696					g				
ap/Cover		Metals	Aluminum Oxides (Al2O3)	1344-28-1	0.6310056	g	942362	94.2362	98434	9.8434
ap/Cover		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.01468968	g	21938	2.1938	2291	0.2291
ap/Cover		Metals	Magnesium-oxide	1309-48-4	0.00654936	g	9781	0.9781	1021	0.1021
p/Cover		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7	0.01604562	g	23963	2.3963	2503	0.2503
ap/Cover		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-	0.00130974	g	1956	0.1956	204	0.0204
nding Wire, Aluminum	0.0354					g				
nding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5	0.0354	g	1000000	100	5522	0.5522
icon Semiconductor Die	0.0146					g				
licon Semiconductor Die		Metals	Gold, metal	7440-57-5	0.00014892	g	10200	1.02	23	0.0023
licon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.00028902	g	19796	1.9796	45	0.0045
icon Semiconductor Die		Glass	Silicon, doped	-	0.01416206	g	970004	97.0004	2209	0.2209
eader Assembly	5.6762					g				
ader Assembly		Metals	Aluminum Oxides (Al2O3)	1344-28-1	0.2637276	g	46462	4.6462	41140	4.114
eader Assembly		Metals	Cobalt, metal	7440-48-4	0.02522503	g	4444	0.4444	3935	0.3935
eader Assembly		Metals	Copper, metal	7440-50-8	2.59333658	g	456879	45.6879	404561	40.4561
ader Assembly		Metals	Gold, metal	7440-57-5	0.01012634	g	1784	0.1784	1579	0.1579
eader Assembly		Metals	Iron, metal	7439-89-6	0.11307558	g	19921	1.9921	17639	1.7639
eader Assembly		Metals	Molybdenum, metal	7439-98-7	2.40270708	g	423295	42.3295	374813	37.4813
eader Assembly		Nickel (external applications only)	Nickel	7440-02-0	0.14087193	g	24818	2.4818	21975	2.1975
eader Assembly		Metals	Palladium, metal	7440-05-3	0.00496668	g	875	0.0875	774	0.0774
eader Assembly		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7	0.00926356	g	1632	0.1632	1445	0.1445
eader Assembly		Glass	Proprietary Material-Other glass compounds (without lead, chromium, cadmium or mercury)	-	0.01990076	g	3506	0.3506	3104	0.3104
eader Assembly		Metals	Silver, metal	7440-22-4	0.03380177	g	5955	0.5955	5272	0.5272
ader Assembly		Metals	Titanium (IV) Oxide	13463-67-7	0.00171421	g	302	0.0302	267	0.0267
ader Assembly		Metals	Tungsten, metal	7440-33-7	0.05748288	g	10127	1.0127	8967	0.8967
icon Semiconductor Die	0.0146					g				
icon Semiconductor Die		Metals	Gold, metal	7440-57-5	0.00014892	g	10200	1.02	23	0.0023
icon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.00028902	g	19796	1.9796	45	0.0045
icon Semiconductor Die		Glass	Silicon, doped	-	0.01416206	q	970004	97.0004	2209	0.2209

LINKS MCD LINK NXP website http://www.nxp.com GENERAL ENVIRONMENTAL COMPLIANCE LINKS http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf RoHS signed letter China RoHS http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf REACH signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf ELV signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf Conflict Minerals statement NXP ENVIRONMENTAL INFORMATION Environmental Compliance website http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX FAQ http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ http://www.nxp.com/support/sales-and-support:SUPPORTHOME Technical Service Request

http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

http://www.freescale.com/mcds/MRF8S9100HR5_IPC1752_v11.xml

http://www.freescale.com/mcds/MRF8S9100HR5_IPC1752A.xml