

PART INFORMATION

Mfg Item Number	MRF8P26080HSR5
Mfg Item Name	NI-780HS-4

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-06-16
Response Document ID	7539K11239D011A1.15
Contact Name	Freescale Semiconductor Inc
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Authorized Representative	Daniel Binyon
Representative Title	EPP Customer Response
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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	MRF8P26080HSR5
Mfg Item Name	NI-780HS-4
Version	ALL
Weight	6.468800
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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Cap/Cover	0.6696						g				
Cap/Cover		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.6310056	g	942362	94.2362	97546	9.7546
Cap/Cover		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.01468968	g	21938	2.1938	2270	0.227
Cap/Cover		Metals	Magnesium-oxide	1309-48-4		0.00654936	g	9781	0.9781	1012	0.1012
Cap/Cover		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.01604562	g	23963	2.3963	2480	0.248
Cap/Cover		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.00130974	g	1956	0.1956	202	0.0202
Bonding Wire, Aluminum	0.0354						g				
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0354	g	1000000	100	5472	0.5472
Silicon Semiconductor Die	0.0292						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.0029784	g	10200	1.02	46	0.0046
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00057804	g	19796	1.9796	89	0.0089
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.02832412	g	970004	97.0004	4378	0.4378
Silicon Semiconductor Die	0.0292						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000584	g	20000	2	90	0.009
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.028616	g	980000	98	4423	0.4423
Silicon Semiconductor Die	0.0292						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000584	g	20000	2	90	0.009
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.028616	g	980000	98	4423	0.4423
Header Assembly	5.6762						g				
Header Assembly		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.37850604	g	66683	6.6683	58512	5.8512
Header Assembly		Metals	Cobalt, metal	7440-48-4		0.06642857	g	11703	1.1703	10269	1.0269
Header Assembly		Metals	Copper, metal	7440-50-8		2.39000373	g	421057	42.1057	369478	36.9478
Header Assembly		Metals	Gold, metal	7440-57-5		0.00589757	g	1039	0.1039	911	0.0911
Header Assembly		Metals	Iron, metal	7439-89-6		0.10663903	g	17730	1.773	15557	1.5557
Header Assembly		Metals	Molybdenum, metal	7439-98-7		2.37067061	g	417651	41.7651	366477	36.6477
Header Assembly		Nickel (external applications only)	Nickel	7440-02-0		0.17029168	g	30001	3.0001	26325	2.6325
Header Assembly		Metals	Palladium, metal	7440-05-3		0.00458637	g	808	0.808	708	0.0708
Header Assembly		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.0126409	g	2227	0.2227	1954	0.1954
Header Assembly		Metals	Silver, metal	7440-22-4		0.05899275	g	10393	1.0393	9119	0.9119
Header Assembly		Metals	Tungsten, metal	7440-33-7		0.10881843	g	19171	1.9171	16822	1.6822
Header Assembly		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00644249	g	1135	0.1135	995	0.0995
Header Assembly		Metals	Titanium (III) oxide (Ti2O3)	1344-54-3		0.00228183	g	402	0.0402	352	0.0352

LINKS

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

IPC1752 XML LINKS

http://www.freescale.com/mcds/MRF8P26080HSR5_IPC1752_v11.xml

http://www.freescale.com/mcds/MRF8P26080HSR5_IPC1752A.xml