PART INFORMATION

Mfg Item Number MRF8HP21080HR3
Mfg Item Name NI 780H-4

SUPPLIER
Company Name Freescale Semiconductor Inc

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

14-141-7928
2017-11-08
7543K11254D003A1.8
Freescale Semiconductor Inc
Product Technical Support
1-800-521-6274
support@freescale.com

Authorized Representative
Representative Title
Representative Phone
Representative Email

Support@freescale.com

Daniel Binyon

EPP Customer Response

512-895-3406

Representative Email

URL for Additional Information www.freescale.com

DECLARATION

EU RoHS
Pb Free
Yes
HalogenFree
Yes
Plating Indicator
EU RoHS Exemption(s)

MANUFACTURING

Mfg Item NumberMRF8HP21080HR3Mfg Item NameNI 780H-4VersionALLWeight6.468800UoMgUnit VolumeEACHJ-STD-020 MSL RatingEACHPeak Processing Temperature260 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	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	0.0146						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000292	g	20000	2	45	0.0045
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.014308	g	980000	98	2211	0.2211
Silicon Semiconductor Die	0.0146						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000292	g	20000	2	45	0.0045
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.014308	g	980000	98	2211	0.2211
Silicon Semiconductor Die	0.0146						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00014892	g	10200	1.02	23	0.0023
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00028902	g	19796	1.9796	44	0.0044
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.01416206	g	970004	97.0004	2189	0.2189
Silicon Semiconductor Die	0.0146						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000292	g	20000	2	45	0.0045
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.014308	g	980000	98	2211	0.2211
Header Assembly	5.6762						g				
Header Assembly		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.25613285	g	45124	4.5124	39595	3.9595
Header Assembly		Solvents, additives, and other materials	Calcium monoxide	1305-78-8		0.00133958	g	236	0.0236	207	0.0207
Header Assembly		Metals	Chromium oxide	1308-38-9		0.01543359	g	2719	0.2719	2385	0.2385
Header Assembly		Metals	Cobalt, metal	7440-48-4		0.0420947	g	7416	0.7416	6507	0.6507
Header Assembly		Metals	Copper, metal	7440-50-8		2.50212004	g	440809	44.0809	386812	38.6812
Header Assembly		Metals	Gold, metal	7440-57-5		0.02924946	g	5153	0.5153	4521	0.4521
Header Assembly		Metals	Iron, metal	7439-89-6		0.0680917	g	11996	1.1996	10526	1.0526
Header Assembly		Metals	Magnesium-oxide	1309-48-4		0.00133958	g	236	0.0236	207	0.0207
Header Assembly		Metals	Molybdenum, metal	7439-98-7		2.4890137	g	438500	43.85	384772	38.4772
Header Assembly		Nickel (external applications only)	Nickel	7440-02-0		0.14759823	g	26003	2.6003	22816	2.2816
Header Assembly		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.00855403	g	1507	0.1507	1322	0.1322
Header Assembly		Metals	Silver, metal	7440-22-4		0.03992071	g	7033	0.7033	6171	0.6171
Header Assembly		Metals	Tungsten, metal	7440-33-7		0.07363167	g	12972	1.2972	11382	1.1382
Header Assembly		Metals	Titanium (III) oxide (Ti2O3)	1344-54-3		0.00168016	g	296	0.0296	259	0.0259
Silicon Semiconductor Die	0.0146						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00014892	g	10200	1.02	23	0.0023
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00028902	g	19796	1.9796	44	0.0044
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.01416206	g	970004	97.0004	2189	0.2189
Silicon Semiconductor Die	0.0146						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000292	g	20000	2	45	0.0045
Silicon Semiconductor Die		Glass	Silicon, doped			0.014308	g	980000	98	2211	0.2211

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/MRF8HP21080HR3_IPC1752_v11.xml

http://www.freescale.com/mcds/MRF8HP21080HR3_IPC1752A.xml