

PART INFORMATION		
Mfg Item Number	MRF8S18210WGHSR5	
Mfg Item Name	NI-880XS-2 GULL	
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2018-03-16	
Response Document ID	00C9K03030D009A1.19	
Contact Name	Freescale Semiconductor Inc	
Contact Title	Product Technical Support	
Contact Phone	1-800-521-6274	
Contact Email	support@freescale.com	
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	MRF8S18210WGHSR5	
Mfg Item Name	NI-880XS-2 GULL	
Version	ALL	
Weight	9.901500	
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%
Bonding Wire, Aluminum	0.0918						g					
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0918	g	1000000	100		9271	0.9271
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		372	0.0372
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		376	0.0376
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		376	0.0376
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		372	0.0372
Header Assembly	8.1849						g					
Header Assembly		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.51803869	g	63292	6.3292		52319	5.2319
Header Assembly		Metals	Cobalt, metal	7440-48-4		0.02882722	g	3522	0.3522		2911	0.2911
Header Assembly		Metals	Copper, metal	7440-50-8		3.52012086	g	430075	43.0075		355532	35.5532
Header Assembly		Metals	Gold, metal	7440-57-5		0.01411077	g	1724	0.1724		1425	0.1425
Header Assembly		Metals	Iron, metal	7439-89-6		0.30241569	g	36948	3.6948		30542	3.0542
Header Assembly		Metals	Molybdenum, metal	7439-98-7		3.25022379	g	397100	39.71		328255	32.8255
Header Assembly		Nickel (external applications only)	Nickel	7440-02-0		0.2864715	g	35000	3.5		28932	2.8932
Header Assembly		Metals	Palladium, metal	7440-05-3		0.00889699	g	1087	0.1087		898	0.0898
Header Assembly		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.01809681	g	2211	0.2211		1827	0.1827
Header Assembly		Glass	Proprietary Material-Other glass compounds (without lead, chromium, cadmium or mercury)	-		0.03895194	g	4759	0.4759		3933	0.3933
Header Assembly		Metals	Silver, metal	7440-22-4		0.08066219	g	9855	0.9855		8146	0.8146
Header Assembly		Metals	Titanium (IV) Oxide	13463-67-7		0.00337218	g	412	0.0412		340	0.034
Header Assembly		Metals	Tungsten, metal	7440-33-7		0.11471137	g	14015	1.4015		11585	1.1585
Capacitor, 0201	0.164						g					
Capacitor, 0201		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.00509433	g	31063	3.1063		514	0.0514
Capacitor, 0201		Metals	Copper, metal	7440-50-8		0.01011552	g	61680	6.168		1021	0.1021
Capacitor, 0201		Metals	Gold, metal	7440-57-5		0.01052027	g	64148	6.4148		1062	0.1062
Capacitor, 0201		Metals	Manganese dioxide	1313-13-9		0.0001658	g	1011	0.1011		16	0.0016
Capacitor, 0201		Nickel (external applications only)	Nickel	7440-02-0		0.00546251	g	33308	3.3308		551	0.0551
Capacitor, 0201		Metals	Tin, metal	7440-31-5		0.00161852	g	9869	0.9869		163	0.0163
Capacitor, 0201		Metals	Barium titanate	12047-27-7		0.13102305	g	798921	79.8921		13232	1.3232
Cap/Cover	1.4456						g					
Cap/Cover		Metals	Aluminum Oxides (Al2O3)	1344-28-1		1.34448473	g	930060	93.006		135786	13.5786
Cap/Cover		Plastics/polymers	Epoxy resin, EPON Resin 8091	25928-94-3		0.02458387	g	17006	1.7006		2482	0.2482
Cap/Cover		Metals	Other iron compounds	-		0.01402377	g	9701	0.9701		1416	0.1416
Cap/Cover		Glass	Silicon dioxide	7631-86-9		0.02060125	g	14251	1.4251		2080	0.208
Cap/Cover		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.04189638	g	28982	2.8982		4231	0.4231

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/MRF8S18210WGHSR5_IPC1752_v11.xml

http://www.freescale.com/mcds/MRF8S18210WGHSR5_IPC1752A.xml