PART INFORMATION

Mfg Item Number

Mfg Item Name

QFP 64 14*14*2.2P0.8

SUPPLIER

Company Name

Freescale Semiconductor Inc

Company Unique ID 14-141-7928 Response Date 2017-06-16 Response Document ID 6057K10531D013A1.18 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

WWW.freescale.

DECLARATIONEU RoHS Yes

Pb Free Yes
HalogenFree Yes
Plating Indicator e3

40 seconds

3

Plating Indicator
EU RoHS Exemption(s)

MANUFACTURING

Mfg Item Number MC68HC08AZ32AFUE
Mfg Item Name QFP 64 14*14*2.2P0.8

 Version
 ALL

 Weight
 0.911600

 UoM
 g

 Unit Volume
 EACH

 J-STD-020 MSL Rating
 3

 Peak Processing Temperature
 260 C

Max Time at Peak Temperature
Number of Processing Cycles

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							
	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							

omogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
ie Encapsulant	0.6748					g				
e Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.02926203	g	43364	4.3364	32099	3.2099
e Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.00129292	g	1916	0.1916	1418	0.1418
e Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.00055806	g	827	0.0827	612	0.0612
e Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other organic phosphorous compounds	-	0.00055806	g	827	0.0827	612	0.0612
e Encapsulant		Plastics/polymers	Other phenolic resins	-	0.00173559	g	2572	0.2572	1903	0.1903
e Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-	0.02551959	g	37818	3.7818	27994	2.7994
e Encapsulant		Glass	Silica, vitreous	60676-86-0	0.61587375	g	912676	91.2676	675604	67.5604
oxy Die Attach	0.0067					g				
oxy Die Attach		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0.00000002	g	3	0.0003	0	0
oxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00124895	g	186411	18.6411	1370	0.137
oxy Die Attach		Lead/Lead Compounds	Lead	7439-92-1	0.00000005	g	7	0.0007	0	0
oxy Die Attach		Metals	Silver, metal	7440-22-4	0.00545098	g	813579	81.3579	5979	0.5979
pper Lead Frame	0.2102					g				
pper Lead Frame		Metals	Copper, metal	7440-50-8	0.20262334	g	963955	96.3955	222272	22.2272
pper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00017342	g	825	0.0825	190	0.019
pper Lead Frame		Metals	Iron, metal	7439-89-6	0.0049397	g	23500	2.35	5418	0.5418
pper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1	0.00003573	g	170	0.017	39	0.0039
pper Lead Frame		Metals	Silver, metal	7440-22-4	0.002102	g	10000	1	2305	0.2305
opper Lead Frame		Metals	Tin, metal	7440-31-5	0.00006306	g	300	0.03	69	0.0069
ppper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00026275	g	1250	0.125	288	0.0288
nding Wire	0.0012					g				
nding Wire		Metals	Gold, metal	7440-57-5	0.0012	g	1000000	100	1316	0.1316
ad Frame Plating	0.0067					g				
ad Frame Plating		Lead/Lead Compounds	Lead	7439-92-1	0.00000134	g	200	0.02	1	0.0001
ad Frame Plating		Metals	Tin, metal	7440-31-5	0.00669866	g	999800	99.98	7348	0.7348
icon Semiconductor Die	0.012					g				
icon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.00024	g	20000	2	263	0.0263
icon Semiconductor Die		Glass	Silicon, doped	-	0.01176	a	980000	98	12900	1.29

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/MC68HC08AZ32AFUE_IPC1752_v11.xml

http://www.freescale.com/mcds/MC68HC08AZ32AFUE_IPC1752A.xml