URL for Additional Information

Peak Processing Temperature

Number of Processing Cycles

Max Time at Peak Temperature

 PART INFORMATION

 Mfg Item Number
 MC908AP64ACFBER

 Mfg Item Name
 QFP44 10*10*2.0P0.8

SUPPLIER
Company Name
Freescale Semiconductor Inc
Company Unique ID
14-141-7928

Response Date 2015-11-09 Response Document ID 6016K11013D030A1.21 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

DECLARATION

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

Yes
Yes
Yes
Yes
Yes
Yes

www.freescale.com

 MANUFACTURING

 Mfg Item Number
 MC908AP64ACFBER

 Mfg Item Name
 QFP44 10*10*2.0P0.8

 Version
 ALL

 Weight
 0.498600

 UoM
 g

 Unit Volume
 EACH

 J-STD-020 MSL Rating
 3

260 C

3

40 seconds

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								
Zampuono	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								

lomogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
poxy Die Attach	0.0002					g	1 1 10			
poxy Die Attach		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0	g	3	0.0003	0	0
poxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00003728	g	186411	18.6411	74	0.0074
oxy Die Attach		Lead/Lead Compounds	Lead	7439-92-1	0	g	7	0.0007	0	0
oxy Die Attach		Metals	Silver, metal	7440-22-4	0.00016272	g	813579	81.3579	326	0.0326
pper Lead Frame	0.1014					g				
pper Lead Frame		Metals	Copper, metal	7440-50-8	0.09774503	g	963955	96.3955	196038	19.6038
pper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00008366	g	825	0.0825	167	0.0167
pper Lead Frame		Metals	Iron, metal	7439-89-6	0.0023829	g	23500	2.35	4779	0.4779
pper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1	0.00001724	g	170	0.017	34	0.0034
pper Lead Frame		Metals	Silver, metal	7440-22-4	0.001014	g	10000	1	2033	0.2033
pper Lead Frame		Metals	Tin, metal	7440-31-5	0.00003042	g	300	0.03	61	0.0061
pper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00012675	g	1250	0.125	254	0.0254
ad Frame Plating	0.0084					g				
ad Frame Plating		Lead/Lead Compounds	Lead	7439-92-1	0.00000168	g	200	0.02	3	0.0003
ad Frame Plating		Metals	Tin, metal	7440-31-5	0.00839832	g	999800	99.98	16843	1.6843
nding Wire, Copper	0.0015					g				
nding Wire, Copper		Metals	Copper, metal	7440-50-8	0.001455	g	970000	97	2918	0.2918
nding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.000045	g	30000	3	90	0.009
Encapsulant Encapsulant	0.35625					g				
Encapsulant Encapsulant		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.01531875	g	43000	4.3	30723	3.0723
Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.00060563	g	1700	0.17	1214	0.1214
Encapsulant		Plastics/polymers	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde and phenol	25917-04-8	0.00096188	g	2700	0.27	1929	0.1929
Encapsulant		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6	0.01375125	g	38600	3.86	27579	2.7579
Encapsulant		Glass	Silica, vitreous	60676-86-0	0.32561249	g	914000	91.4	653063	65.3063
con Semiconductor Die	0.03085					g				
con Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000617	g	20000	2	1237	0.1237
con Semiconductor Die		Glass	Silicon, doped	-	0.030233	a	980000	98	60635	6.0635

LINKS

MCD LINK

http://www.freescale.com Freescale website

GENERAL ENVIRONMENTAL COMPLIANCE LINKS

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdf RoHS signed letter China RoHS http://www.freescale.com/chinarohs

REACH signed letter $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdf$

ELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdf **Conflict Minerals statement** $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf$

FREESCALE ENVIRONMENTAL INFORMATION

EPP website http://www.freescale.com/epp

FAQ http://www.freescale.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQ

Technical Service Request

LINKS TO BLANK IPC1752 FORMS

https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod

Blank IPC1752 v1.1 Form http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MC908AP64ACFBER_IPC1752_v11.xml

http://www.freescale.com/mcds/MC908AP64ACFBER_IPC1752A.xml