SUPPLIER

Max Time at Peak Temperature

Number of Processing Cycles

PART INFORMATION

Mfg Item Number

Mfg Item Name

MAPBGA 208 17*17*0.8P1.0

Company Name
Company Unique ID
Response Date
Response Document ID
Contact Name
Contact Title
Contact Phone
Freescale Semiconductor Inc
Freescale Semiconductor Inc
14-141-7928
2018-06-23
5253A1.32
Freescale Semiconductor Inc
Freescale Semiconductor Inc
1-800-521-6274

Contact Phone
Contact Phone
Contact Email
Authorized Representative
Representative Title
Representative Phone
Representative Email
Representative Email
URL for Additional Information
Product Technical Support
Suppo

ECLAPATION

DECLARATION

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

MANUFACTURING Mfg Item Number SPC5668GF1AMMG Mfg Item Name MAPBGA 208 17*17*0.8P1.0 Version ALL Weight 0.828900 UoM Unit Volume EACH J-STD-020 MSL Rating 3 Peak Processing Temperature 260 C

40 seconds

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							
Zampuona	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				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0027					g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0002025	g	75000	7.5	244	0.0244
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5	0.00054	g	200000	20	651	0.0651
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-	0.0002025	g	75000	7.5	244	0.0244
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-	0.00054	g	200000	20	651	0.0651
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.001215	g	450000	45	1465	0.1465
Solder Balls - Pb Free, Sn/Ag	0.1703					g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4	0.0059605	g	35000	3.5	7190	0.719
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5	0.1643395	g	965000	96.5	198262	19.8262
Substrate	0.1313					g				
Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3	0.00056144	g	4276	0.4276	677	0.0677
Substrate		Metals	Barium sulfate	7727-43-7	0.00520985	g	39679	3.9679	6285	0.6285
Substrate		Metals	Copper, metal	7440-50-8	0.05463721	g	416125	41.6125	65915	6.5915
Substrate		Metals	Gold, metal	7440-57-5	0.00037224	g	2835	0.2835	449	0.0449
Substrate		Solvents, additives, and other materials	Silicon	7440-21-3	0.00006736	g	513	0.0513	81	0.0081
Substrate		Nickel (external applications only)	Nickel	7440-02-0	0.00134858	g	10271	1.0271	1626	0.1626
Substrate		Glass	Fibrous-glass-wool	65997-17-3	0.02329104	g	177388	17.7388	28098	2.8098
Substrate		Plastics/polymers	Other acrylic resins	-	0.00660216	g	50283	5.0283	7964	0.7964
Substrate		Plastics/polymers	Proprietary Material-Other Non-halogenated Epoxy resins	-	0.03921012	g	298630	29.863	47303	4.7303
Die Encapsulant, Halogen-free	0.4784					g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-	0.028704	g	60000	6	34629	3.4629
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.004784	g	10000	1	5771	0.5771
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-	0.009568	g	20000	2	11543	1.1543
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-	0.02392	g	50000	5	28857	2.8857
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	0.411424	g	860000	86	496361	49.6361
Bonding Wire, PdCu	0.0062					g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8	0.0060822	g	981000	98.1	7337	0.7337
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5	0.0000062	g	1000	0.1	7	0.0007
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3	0.0001116	g	18000	1.8	134	0.0134
Silicon Semiconductor Die	0.04					g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.0008	g	20000	2	965	0.0965
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.0392	g	980000	98	47291	4.7291

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/SPC5668GF1AMMG_IPC1752_v11.xml

http://www.freescale.com/mcds/SPC5668GF1AMMG_IPC1752A.xml