PART INFORMATION	
Mfg Item Number	MCF52258CVN66J
Mfg Item Name	MAPBGA 144 13*13*1.6 P1

SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-02-05
Response Document ID	5096A1.28
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
Contact Phone	1-800-521-6274
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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	e2
EU RoHS Exemption(s)	

MANUFACTURING	
Mfg Item Number	MCF52258CVN66J
Mfg Item Name	MAPBGA 144 13*13*1.6 P1
Version	ALL
Weight	0.443700
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
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%
Die Encapsulant	0.2389						g					
Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.00738105	g	30896	3.0896		16635	1.6635
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.00738105	g	30896	3.0896		16635	1.6635
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0007382	g	3090	0.309		1663	0.1663
Die Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-		0.0007382	g	3090	0.309		1663	0.1663
Die Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.01353177	g	56642	5.6642		30497	3.0497
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.20912973	g	875386	87.5386		471345	47.1345
Non-Conductive Epoxy/Adhesive	0.0015						g					
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0001125	g	75000	7.5		253	0.0253
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.0003	g	200000	20		676	0.0676
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0001125	g	75000	7.5		253	0.0253
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.0003	g	200000	20		676	0.0676
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000675	g	450000	45		1521	0.1521
Solder Balls - Pb Free, Sn/Ag	0.0734						g					
Solder Balls - Pb Free, Sn/Ag		Metals	Aluminum, metal	7429-90-5		0.00000235	g	32	0.0032		5	0.0005
Solder Balls - Pb Free, Sn/Ag		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000918	g	125	0.0125		20	0.002
Solder Balls - Pb Free, Sn/Ag		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000551	g	75	0.0075		12	0.0012
Solder Balls - Pb Free, Sn/Ag		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.0000138	g	188	0.0188		31	0.0031
Solder Balls - Pb Free, Sn/Ag		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0.00000095	g	13	0.0013		2	0.0002
Solder Balls - Pb Free, Sn/Ag		Metals	Copper, metal	7440-50-8		0.00000462	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Gold, metal	7440-57-5		0.00000462	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Indium, metal	7440-74-6		0.00000462	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Sulfur	7704-34-9		0.00000051	g	7	0.0007		1	0.0001
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00000462	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Iron, metal	7439-89-6		0.00000918	g	125	0.0125		20	0.002
Solder Balls - Pb Free, Sn/Ag		Lead/Lead Compounds	Lead	7439-92-1		0.00002297	g	313	0.0313		51	0.0051
Solder Balls - Pb Free, Sn/Ag		Nickel (external applications only)	Nickel	7440-02-0		0.00000235	g	32	0.0032		5	0.0005
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.00256915	g	35002	3.5002		5790	0.579
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.07074418	g	963817	96.3817		159441	15.9441
Solder Balls - Pb Free, Sn/Ag		Metals	Zinc, metal	7440-66-6		0.00000139	g	19	0.0019		3	0.0003
Organic Substrate, Halogen-fre	0.112						g					
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00233083	g	20811	2.0811		5253	0.5253
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.04967311	g	443510	44.351		111952	11.1952
Organic Substrate, Halogen-fre		Plastics/polymers	Epikote 862	28064-14-4		0.00851648	g	76040	7.604		19194	1.9194
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00035952	g	3210	0.321		810	0.081
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.0020925	g	18683	1.8683		4716	0.4716
Organic Substrate, Halogen-fre		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.00460354	g	41103	4.1103		10375	1.0375
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.02819656	g	251755	25.1755		63548	6.3548
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.00241685	g	21579	2.1579		5447	0.5447
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.01381061	g	123309	12.3309		31126	3.1126
Silicon Semiconductor Die	0.0142						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000284	g	20000	2		640	0.064
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.013916	g	980000	98		31363	3.1363
Bonding Wire, PdCu	0.0037						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0036297	g	981000	98.1		8180	0.818
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000037	g	1000	0.1		8	0.0008
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0000666	g	18000	1.8		150	0.015

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/MCF52258CVN66J_IPC1752_v11.xml

http://www.freescale.com/mcds/MCF52258CVN66J_IPC1752A.xml