PART INFORMATION

Mfg Item Number MCF5272VM66J
Mfg Item Name MABGA-FW 196 15SQ0.8P1.0

SUPPLIER

Freescale Semiconductor Inc

Company Name
Company Unique ID

Company Unique ID

Response Date

Response Document ID

Contact Name

Contact Title

Contact Phone

14-141-7928
2017-06-08
5220K00119D063A1.20
Freescale Semiconductor Inc
Product Technical Support
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DECLARATION

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

Yes

Yes

Yes

Yes

Yes

Yes

MANUFACTURING

Mfg Item Number MCF5272VM66J

Mfg Item Name MABGA-FW 196 15SQ0.8P1.0

 Version
 ALL

 Weight
 0.482550

 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, 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							
Exemplions	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	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	0.2687						g				
Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.00830176	g	30896	3.0896	17203	1.7203
Die Encapsulant		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000027	g	1	0.0001	0	0
Die Encapsulant		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0.00000027	g	1	0.0001	0	0
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.00830176	g	30896	3.0896	17203	1.7203
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00083028	g	3090	0.309	1720	0.172
Die Encapsulant		Lead/Lead Compounds	Lead	7439-92-1		0.00000027	g	1	0.0001	0	0
Die Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-		0.00083028	g	3090	0.309	1720	0.172
Die Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.01521971	g	56642	5.6642	31540	3.154
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.2352154	g	875383	87.5383	487462	48.7462
Organic Substrate, Halogen-fre	0.15785						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00876825	g	55548	5.5548	18170	1.817
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.0555741	g	352069	35.2069	115167	11.5167
Organic Substrate, Halogen-fre		Plastics/polymers	Epikote 862	28064-14-4		0.01186274	g	75152	7.5152	24583	2.4583
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00223831	g	14180	1.418	4638	0.4638
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.01697977	g	107569	10.7569	35187	3.5187
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Diphenyl tolyl phosphate	26444-49-5		0.01983559	g	125661	12.5661	41105	4.1105
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).			0.00031317	g	1984	0.1984	648	0.0648
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other Aromatic carbonyl compounds	-		0.00121339	g	7687	0.7687	2514	0.2514
Organic Substrate, Halogen-fre		Glass	Silica, crystalline - tridymite	15468-32-3		0.04106468	g	260150	26.015	85099	8.5099
Non-Conductive Epoxy/Adhesive	0.009						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.000675	g	75000	7.5	1398	0.1398
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.0018	g	200000	20	3730	0.373
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers			0.000675	g	75000	7.5	1398	0.1398
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.0018	g	200000	20	3730	0.373
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.00405	g	450000	45	8392	0.8392
Bonding Wire	0.0017						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.0017	g	1000000	100	3522	0.3522
Silicon Semiconductor Die	0.0087						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000174	g	20000	2	360	0.036
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.008526	g	980000	98	17668	1.7668
Solder Balls - Lead Free	0.0366						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000026	g	7	0.0007	0	0
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000026	g	7	0.0007	0	0
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.0000018	g	5	0.0005	0	0
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0002562	g	7000	0.7	530	0.053
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000066	g	18	0.0018	1	0.0001
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00000205	g	56	0.0056	4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00137616	g	37600	3.76	2851	0.2851
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.03496423	g	955307	95.5307	72457	7.2457

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/MCF5272VM66J_IPC1752_v11.xml

http://www.freescale.com/mcds/MCF5272VM66J_IPC1752A.xml