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PART INFORMATION

Mfg Item Number	MPC8358VRAGDDA
Mfg Item Name	PBGA-PGE 668 29SQ1.2P1.0

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-09-18
Response Document ID	5042K11213D017A1.39
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

DECLARATION

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e2
EU RoHS Exemption(s)	

MANUFACTURING

Mfg Item Number	MPC8358VRAGDDA
Mfg Item Name	PBGA-PGE 668 29SQ1.2P1.0
Version	ALL
Weight	5.976300
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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>



MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0093						g				
Epoxy Die Attach		Solvents, additives, and other materials	1,3,5-Triazine-2,4-diamine, 6-[2-(2-methyl-1H-imidazol-1-yl)ethyl]	38668-46-1		0.00007859	g	8451	0.8451	13	0.0013
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-95-5		0.00120508	g	129579	12.9579	201	0.0201
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00007859	g	8451	0.8451	13	0.0013
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.00793774	g	853519	85.3519	1328	0.1328
Solder Balls - Pb Free, Sn/Ag	0.5531						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.0193595	g	35000	3.5	3239	0.3239
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.5337415	g	965000	96.5	89309	8.9309
Non-Conductive Epoxy/Adhesive	0.0059						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000099	g	10000	1	9	0.0009
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.002655	g	450000	45	444	0.0444
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.000099	g	10000	1	9	0.0009
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.00118	g	200000	20	197	0.0197
Non-Conductive Epoxy/Adhesive		Glass	Other silica compounds	-		0.00118	g	200000	20	197	0.0197
Non-Conductive Epoxy/Adhesive		Glass	Dimethyl silicone polymer with silica	67762-90-7		0.000472	g	80000	8	78	0.0078
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Dimethyl methyl hydrogen siloxane	68037-69-2		0.000295	g	50000	5	49	0.0049
Organic Substrate, Halogen-free	3.1						g				
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7		0.0687332	g	22172	2.2172	11500	1.15
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8		2.0668878	g	666738	66.6738	345866	34.5866
Organic Substrate, Halogen-free		Plastics/polymers	2,2'-(1,1-methylethylene)bis(4,1-phenyleneoxy)methylene)bisoxirane	1675-54-3		0.0073315	g	2365	0.2365	1225	0.1225
Organic Substrate, Halogen-free		Plastics/polymers	Poly[o-cresyl glycidyl ether]-co-formaldehyde	29890-82-2		0.2035739	g	65669	6.5669	34063	3.4063
Organic Substrate, Halogen-free		Metals	Gold, metal	7440-57-5		0.0046841	g	1511	0.1511	783	0.0783
Organic Substrate, Halogen-free		Solvents, additives, and other materials	1-cyanoguanidine	461-58-5		0.0009331	g	301	0.0301	156	0.0156
Organic Substrate, Halogen-free		Solvents, additives, and other materials	1,1'-(methylene)di-p-phenylene)bis(maleimide)	13676-54-5		0.0610731	g	19701	1.9701	10219	1.0219
Organic Substrate, Halogen-free		Nickel (external applications only)	Nickel	7440-02-0		0.0277357	g	8947	0.8947	4640	0.464
Organic Substrate, Halogen-free		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.2035739	g	65669	6.5669	34063	3.4063
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3		0.325717	g	105070	10.507	54501	5.4501
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.1291895	g	41676	4.1676	21617	2.1617
Organic Substrate, Halogen-free		Metals	Copper phthalocyanine	147-14-8		0.0005611	g	181	0.0181	93	0.0093
Heat Spreader	1.1178						g				
Heat Spreader		Metals	Copper, metal	7440-50-8		1.1178	g	1000000	100	187038	18.7038
Die Encapsulant, Halogen-free	1.1419						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.068514	g	60000	6	11464	1.1464
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.011419	g	10000	1	1910	0.191
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.022838	g	20000	2	3821	0.3821
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.007095	g	50000	5	9553	0.9553
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.982034	g	860000	86	164321	16.4321
Bonding Wire, Copper	0.0193						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.017751	g	970000	97	2970	0.297
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000549	g	30000	3	91	0.0091
Silicon Semiconductor Die	0.03						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.0006	g	20000	2	100	0.01
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.0294	g	980000	98	4919	0.4919



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

