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URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

MPC8313CVRADDC

PBGAPGE 516 27SQ*1.25P1

SUPPLIER Freescale Semiconductor Inc Company Name Company Unique ID 14-141-7928 Response Date 2017-09-18 Response Document ID 5368K11245D019A1.22 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)

www.freescale.com

MANUFACTURING Mfg Item Number MPC8313CVRADDC Mfg Item Name PBGAPGE 516 27SQ*1.25P1 Version ALL Weight 5.496900 UoM 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



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 Su							
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							



Homogeneous Material	Weight					nceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.01						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	0.00008451	l	g	8451	0.8451	15	0.0015
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00129579)	g	129579	12.9579	235	0.0235
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6	0.00008451	l	g	8451	0.8451	15	0.0015
Epoxy Die Attach		Metals	Silver, metal	7440-22-4	0.00853519)	g	853519	85.3519	1552	0.1552
Solder Balls - Pb Free, Sn/Ag	0.426						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4	0.01491		g	35000	3.5	2712	0.2712
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5	0.41109		g	965000	96.5	74785	7.4785
Non-Conductive Epoxy/Adhesive	0.0059						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.000059		g	10000	1	10	0.001
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	482	0.0482
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7	0.000059		g	10000	1	10	0.001
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.00118		g	200000	20	214	0.0214
Non-Conductive Epoxy/Adhesive		Glass	Other silica compounds	-	0.00118		g	200000	20	214	0.0214
Non-Conductive Epoxy/Adhesive		Glass	Dimethyl silicone polymer with silica	67762-90-7	0.000472		g	80000	8	85	0.0085
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Dimethyl,methyl hydrogen siloxane	68037-59-2	0.000295		g	50000	5	53	0.0053
Heat Spreader	1.1178						g				
Heat Spreader		Metals	Copper, metal	7440-50-8	1.1178		g	1000000	100	203350	20.335
Die Encapsulant, Halogen-free	1.8139						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-	0.108834		g	60000	6	19799	1.9799
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.018139		g	10000	1	3299	0.3299
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-	0.036278		q	20000	2	6599	0.6599
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-	0.090695		g	50000	5	16499	1.6499
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	1.559954		q	860000	86	283807	28.3807
Silicon Semiconductor Die	0.04						q				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.0008		q	20000	2	145	0.0145
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.0392		q	980000	98	7131	0.7131
Bonding Wire, Copper	0.025						q				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8	0.02425		q	970000	97	4411	0.4411
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.00075		q	30000	3	136	0.0136
Organic Substrate	2.0583						q				
Organic Substrate		Metals	Barium sulfate	7727-43-7	0.02253427	,	q	10948	1.0948	4099	0.4099
Organic Substrate		Metals	Copper, metal	7440-50-8	1.23505822	2	q	600038	60.0038	224682	22.4682
Organic Substrate		Plastics/polymers	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	1675-54-3	0.00453649)	g	2204	0.2204	825	0.0825
Organic Substrate		Metals	Gold, metal	7440-57-5	0.00255229)	g	1240	0.124	464	0.0464
Organic Substrate		Metals	Talc	14807-96-6	0.00356703	3	g	1733	0.1733	648	0.0648
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0	0.01763963	3	g	8570	0.857	3209	0.3209
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-	0.00913885		g	4440	0.444	1662	0.1662
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3	0.30380302		g	147599	14.7599	55268	5.5268
Organic Substrate		Glass	Silicon dioxide	7631-86-9	0.0371729		q	18060	1.806	6762	0.6762
Organic Substrate		Plastics/polymers	Proprietary Material-Other acrylic/epoxy resin mixture	-	0.41459514	1	q	201426	20.1426	75423	7.5423
Organic Substrate		Plastics/polymers	Proprietary Material-Urethane Polymers	-	0.00751074		q	3649	0.3649	1366	0.1366
Organic Substrate		Metals	Copper phthalocyanine	147-14-8	0.00019142		a	93	0.0093	34	0.0034
					0.00010142		9			-	



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