PART INFORMATION

Mfg Item Number MPC5125YVN400

Mfg Item Name PBGAPGE 324 23SQ1.25P1.0

SUPPLIER

Company Name Freescale Semiconductor Inc

Company Unique ID

Response Date

2017-10-27

 Response Date
 2017-10-27

 Response Document ID
 5366K00073D039A1.12

Contact Name Freescale Semiconductor Inc Contact Title Product Technical Support **Contact Phone** 1-800-521-6274 Contact Email support@freescale.com Daniel Binyon **Authorized Representative** Representative Title **EPP Customer Response** Representative Phone 512-895-3406 Representative Email eppanlst@freescale.com

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URL for Additional Information

DECLARATION

EU RoHS
Pb Free
Yes
HalogenFree
Yes
Plating Indicator
e2

EU RoHS Exemption(s)

Number of Processing Cycles

MANUFACTURING

Mfg Item Number MPC5125YVN400

Mfg Item Name

PBGAPGE 324 23SQ1.25P1.0

 Version
 ALL

 Weight
 1.703750

 UoM
 g

 Unit Volume
 EACH

 J-STD-020 MSL Rating
 3

 Peak Processing Temperature
 260 C

 Max Time at Peak Temperature
 40 seconds

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							
Lxomptions	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%
Epoxy Die Attach	0.0145						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		0.00012254	g	8451	0.8451	71	0.0071
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0018789	g	129579	12.9579	1102	0.1102
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00012254	g	8451	0.8451	71	0.0071
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.01237602	g	853519	85.3519	7263	0.7263
Solder Balls - Pb Free, Sn/Ag	0.2675						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.0093625	g	35000	3.5	5495	0.5495
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.2581375	g	965000	96.5	151511	15.1511
Organic Substrate, Halogen-fre	0.592						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.01270965	g	21469	2.1469	7459	0.7459
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.39701177	g	670628	67.0628	233022	23.3022
Organic Substrate, Halogen-fre		Plastics/polymers	2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	1675-54-3		0.00144034	g	2433	0.2433	845	0.0845
Organic Substrate, Halogen-fre		Plastics/polymers	Poly[(o-cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.03859485	g	65194	6.5194	22652	2.2652
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00086728	g	1465	0.1465	509	0.0509
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	1-cyanoguanidine	461-58-5		0.00017286	g	292	0.0292	101	0.0101
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	1,1'-(methylenedi-p-phenylene)bismaleimide	13676-54-5		0.01157834	g	19558	1.9558	6795	0.6795
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.00513797	g	8679	0.8679	3015	0.3015
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.03859485	g	65194	6.5194	22652	2.2652
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.06175211	g	104311	10.4311	36244	3.6244
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.02403638	g	40602	4.0602	14107	1.4107
Organic Substrate, Halogen-fre		Metals	Copper phthalocyanine	147-14-8		0.0001036	g	175	0.0175	60	0.006
Die Encapsulant	0.7571						g				
Die Encapsulant		Plastics/polymers	Other Epoxy resins	-		0.045426	g	60000	6	26662	2.6662
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.007571	g	10000	1	4443	0.4443
Die Encapsulant		Solvents, additives, and other materials	Other inorganic compounds.	-		0.015142	g	20000	2	8887	0.8887
Die Encapsulant		Plastics/polymers	Other phenolic resins	-		0.037855	g	50000	5	22218	2.2218
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.651106	g	860000	86	382177	38.2177
Silicon Semiconductor Die	0.06675						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.001335	g	20000	2	783	0.0783
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.065415	g	980000	98	38394	3.8394
Bonding Wire, PdCu	0.0059						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0057879	g	981000	98.1	3397	0.3397
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000059	g	1000	0.1	3	0.0003
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0001062	a	18000	1.8	62	0.0062

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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/MPC5125YVN400_IPC1752_v11.xml

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