URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

SPC5674FAMVY3R

TEPBGA PGE 516 27*27 P1

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2018-05-14 Response Document ID 5193K11138D045A1.10 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)

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MANUFACTURING SPC5674FAMVY3R Mfg Item Number Mfg Item Name TEPBGA PGE 516 27*27 P1 Version ALL Weight 4.374400 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 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							
Exemptions	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	0.01						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	g	8451	0.8451	19	0.0019
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00129579	g	129579	12.9579	296	0.0296
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00008451	g	8451	0.8451	19	0.0019
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.00853519	g	853519	85.3519	1951	0.1951
Solder Balls - Pb Free, Sn/Ag	0.4272						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.014952	g	35000	3.5	3418	0.3418
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.412248	g	965000	96.5	94241	9.4241
Bonding Wire, PdCu	0.025						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.024525	g	981000	98.1	5606	0.5606
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.000025	g	1000	0.1	5	0.0005
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00045	g	18000	1.8	102	0.0102
Die Encapsulant, Halogen-free	1.8139						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3		0.00090695	g	500	0.05	207	0.0207
Die Encapsulant, Halogen-free		Metals	Proprietary Material-Other aluminum compounds	-		0.018139	g	10000	1	4146	0.4146
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.0453475	g	25000	2.5	10366	1.0366
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0453475	g	25000	2.5	10366	1.0366
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0090695	g	5000	0.5	2073	0.2073
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.072556	g	40000	4	16586	1.6586
Die Encapsulant, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.36278	g	200000	20	82932	8.2932
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		1.25975355	g	694500	69.45	287983	28.7983
Organic Substrate, Halogen-fre	2.0583						g				
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3		0.0046003	g	2235	0.2235	1051	0.1051
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.04265621	g	20724	2.0724	9751	0.9751
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		1.52595158	g	741365	74.1365	348850	34.885
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6		0.0298577	g	14506	1.4506	6825	0.6825
Organic Substrate, Halogen-fre		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.22614748	g	109871	10.9871	51697	5.1697
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00266962	g	1297	0.1297	610	0.061
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Silicon	7440-21-3		0.00055162	g	268	0.0268	126	0.0126
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.01504823	g	7311	0.7311	3440	0.344
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.16216728	g	78787	7.8787	37071	3.7071
Organic Substrate, Halogen-fre		Plastics/polymers	Other acrylic resins	-		0.02702754	g	13131	1.3131	6178	0.6178
Organic Substrate, Halogen-fre		Plastics/polymers	Other acrylic/epoxy resin mixture	-		0.02162244	g	10505	1.0505	4942	0.4942
Silicon Semiconductor Die	0.04						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0008	g	20000	2	182	0.0182
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.0392	a	980000	98	8961	0.8961

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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

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