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URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

TEPBGA PGE 516 27*27 P1

SUPPLIER Freescale Semiconductor Inc Company Name Company Unique ID 14-141-7928 Response Date 2018-06-04 Response Document ID 5193K11138D033A1.6 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 MPC8321ECVRAFDCA 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



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				SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
poxy Die Attach	0.01					g				
poxy 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
poxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00129579	g	129579	12.9579	296	0.0296
poxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6	0.00008451	g	8451	0.8451	19	0.0019
poxy Die Attach		Metals	Silver, metal	7440-22-4	0.00853519	g	853519	85.3519	1951	0.1951
ganic Substrate, Halogen-fre	2.0583					g				
rganic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other acrylates	-	0.02624744	g	12752	1.2752	6000	0.6
rganic Substrate, Halogen-fre		Metals	Aluminum Oxides (Al2O3)	1344-28-1	0.14018052	g	68105	6.8105	32045	3.2045
rganic Substrate, Halogen-fre		Metals	Barium	7440-39-3	0.01566572	g	7611	0.7611	3581	0.3581
rganic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8	1.33007552	g	646201	64.6201	304058	30.4058
rganic Substrate, Halogen-fre		Plastics/polymers	Other Epoxy resins	-	0.16787906	g	81562	8.1562	38377	3.8377
ganic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5	0.00321301	g	1561	0.1561	734	0.0734
ganic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0	0.01904339	g	9252	0.9252	4353	0.4353
ganic Substrate, Halogen-fre		Solvents, additives, and other materials	Other organic compounds.	-	0.00292279	g	1420	0.142	668	0.0668
ganic Substrate, Halogen-fre		Glass	Other glass compounds (without lead, chromium, cadmium or mercury)	-	0.30235192	g	146894	14.6894	69118	6.9118
ganic Substrate, Halogen-fre		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.01460776	g	7097	0.7097	3339	0.3339
ganic Substrate, Halogen-fre		Glass	Dimethyl silicone polymer with silica	67762-90-7	0.03611287	g	17545	1.7545	8255	0.8255
lder Balls - Pb Free, Sn/Ag	0.4272					g				
lder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4	0.014952	g	35000	3.5	3418	0.3418
lder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5	0.412248	g	965000	96.5	94241	9.4241
Encapsulant, Halogen-free	1.8139					g				
e Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-	0.108834	g	60000	6	24879	2.4879
e Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.018139	g	10000	1	4146	0.4146
e Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-	0.036278	g	20000	2	8293	0.8293
e Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins		0.090695	g	50000	5	20733	2.0733
e Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	1.559954	g	860000	86	356620	35.662
nding Wire, Copper	0.025					g				
nding Wire, Copper		Metals	Copper, metal	7440-50-8	0.02425	g	970000	97	5543	0.5543
nding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.00075	g	30000	3	171	0.0171
icon Semiconductor Die	0.04					g				
licon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.0008	g	20000	2	182	0.0182
licon Semiconductor Die		Glass	Silicon, doped		0.0392		980000	00	8961	0.8961



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