SUPPLIER

URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 MPC880ZP133

 Mfg Item Name
 PBGA-FW 357 25SQ1.2P1.27

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-03-29 5191K10790D031A1.34 Response Document ID 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

DECLARATION

EU RoHS
Pb Free
No
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

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MANUFACTURING Mfg Item Number MPC880ZP133 Mfg Item Name PBGA-FW 357 25SQ1.2P1.27 Version ALL Weight 2.267500 UoM Unit Volume EACH J-STD-020 MSL Rating 3 Peak Processing Temperature 245 C Max Time at Peak Temperature 30 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	3 - Item(s) does not contain RoHS restricted substances per the definition above except for lead in solders and selected exemptions, if any								
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	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	0.7825						g				
Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.02417612	g	30896	3.0896	10662	1.0662
Die Encapsulant		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000078	g	1	0.0001	0	0
Die Encapsulant		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0.00000078	g	1	0.0001	0	0
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.02417612	g	30896	3.0896	10662	1.0662
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00241793	g	3090	0.309	1066	0.1066
Die Encapsulant		Lead/Lead Compounds	Lead	7439-92-1		0.00000078	g	1	0.0001	0	0
Die Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-		0.00241793	g	3090	0.309	1066	0.1066
Die Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.04432237	g	56642	5.6642	19546	1.9546
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.68498719	g	875383	87.5383	302106	30.2106
Organic Substrate, Halogen-fre	0.6635						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.03695032	g	55690	5.569	16295	1.6295
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.11326741	g	170712	17.0712	49952	4.9952
Organic Substrate, Halogen-fre		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.05027937	g	75779	7.5779	22173	2.2173
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.02299956	g	34664	3.4664	10143	1.0143
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.1895865	g	285737	28.5737	83610	8.361
Organic Substrate, Halogen-fre		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.14299752	g	215520	21.552	63063	6.3063
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other Aromatic carbonyl compounds	-		0.00591311	g	8912	0.8912	2607	0.2607
Organic Substrate, Halogen-fre		Plastics/polymers	Other Non-halogenated Epoxy resins			0.10150621	g	152986	15.2986	44765	4.4765
Epoxy Die Attach	0.0066		0 1 7				q				
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		0.00005578	g	8451	0.8451	24	0.0024
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00085522	g	129579	12.9579	377	0.0377
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00005578	g	8451	0.8451	24	0.0024
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.00563322	g	853519	85.3519	2484	0.2484
Solder Balls - Low Lead	0.7786						g				
Solder Balls - Low Lead		Metals	Aluminum, metal	7429-90-5		0.00000623	g	8	0.0008	2	0.0002
Solder Balls - Low Lead		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000545	g	7	0.0007	2	0.0002
Solder Balls - Low Lead		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00001557	g	20	0.002	6	0.0006
Solder Balls - Low Lead		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000856	g	11	0.0011	3	0.0003
Solder Balls - Low Lead		Metals	Copper, metal	7440-50-8		0.00000779	g	10	0.001	3	0.0003
Solder Balls - Low Lead		Metals	Iron, metal	7439-89-6		0.00001324	g	17	0.0017	5	0.0005
Solder Balls - Low Lead		Lead/Lead Compounds	Lead	7439-92-1		0.28031001	g	360018	36.0018	123620	12.362
Solder Balls - Low Lead		Nickel (external applications only)	Nickel	7440-02-0		0.00002881	g	37	0.0037	12	0.0012
Solder Balls - Low Lead		Metals	Silver, metal	7440-22-4		0.01550815	g	19918	1.9918	6839	0.6839
Solder Balls - Low Lead		Metals	Tin, metal	7440-31-5		0.48269074	q	619947	61.9947	212873	21.2873
Solder Balls - Low Lead		Metals	Zinc, metal	7440-66-6		0.00000545	q	7	0.0007	2	0.0002
Silicon Semiconductor Die	0.022						q				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00044	q	20000	2	194	0.0194
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.02156	a	980000	98	9508	0.9508
Bonding Wire, Copper	0.0143						a			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Bonding Wire, Copper	0.0140	Metals	Copper, metal	7440-50-8		0.013871	a	970000	97	6117	0.6117
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).			0.000429	9	30000	3	189	0.0189

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http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

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