URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 T1022NSE7MQB

 Mfg Item Name
 FCPBGA 780 23*23*1.92

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-04-01 Response Document ID 00FAK50008S314A1.6 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
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

www.freescale.com

MANUFACTURING Mfg Item Number T1022NSE7MQB FCPBGA 780 23*23*1.92 Mfg Item Name Version ALL Weight 1.482800 UoM Unit Volume EACH J-STD-020 MSL Rating 3 Peak Processing Temperature 250 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	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					Exemption	6 1		SubPart PPM	0.15.49/	ARTICLEPPM	ARTICLE%
	Weight			CAS		SubstanceWeight	UoM		SubPart%		
older Balls - Lead Free	0.1936						q				
lder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00096974	q	5009	0.5009	653	0.0653
lder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00581845	g	30054	3.0054	3923	0.3923
older Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.18681181	g	964937	96.4937	125985	12.5985
nderfill	0.0138						g				
derfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.000069	g	5000	0.5	46	0.0046
derfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.000069	g	5000	0.5	46	0.0046
derfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.00207	g	150000	15	1396	0.1396
derfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00138	g	100000	10	930	0.093
derfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000069	g	5000	0.5	46	0.0046
derfill		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.000414	g	30000	3	279	0.0279
derfill		Glass	Silica, vitreous	60676-86-0		0.00828	g	600000	60	5584	0.5584
derfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.000069	g	5000	0.5	46	0.0046
derfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-		0.00138	g	100000	10	930	0.093
ganic Substrate, Halogen-fre	1.1522						g				
ganic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00901827	g	7827	0.7827	6081	0.6081
ganic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.40546495	g	351905	35.1905	273461	27.3461
ganic Substrate, Halogen-fre		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.1838819	g	159592	15.9592	124009	12.4009
ganic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.00103352	g	897	0.0897	697	0.0697
ganic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other organic phosphorous compounds	-		0.01254285	g	10886	1.0886	8458	0.8458
ganic Substrate, Halogen-fre		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.01411099	g	12247	1.2247	9516	0.9516
ganic Substrate, Halogen-fre		Plastics/polymers	Proprietary Material-Other polymers	-		0.11522	g	100000	10	77704	7.7704
anic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.21712748	g	188446	18.8446	146430	14.643
ganic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.0598372	g	51933	5.1933	40354	4.0354
ganic Substrate, Halogen-fre		Metals	Silver, metal	7440-22-4		0.00056112	g	487	0.0487	378	0.0378
ganic Substrate, Halogen-fre		Metals	Tin, metal	7440-31-5		0.01805152	g	15667	1.5667	12173	1.2173
anic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.11529259	g	100063	10.0063	77753	7.7753
ganic Substrate, Halogen-fre		Metals	Copper phthalocyanine	147-14-8		0.00005761	g	50	0.005	38	0.0038
free Bumped Semiconductor D	0.1232						g				
-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.000616	g	5000	0.5	415	0.0415
-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00038808	g	3150	0.315	261	0.0261
-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.01069992	g	86850	8.685	7216	0.7216
-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0011088	g	9000	0.9	747	0.0747
-free Bumped Semiconductor D		Glass	Silicon, doped	_		0.1103872	a	896000	89.6	74445	7.4445

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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/T1022NSE7MQB_IPC1752_v11.xml

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