PART INFORMATION

Mfg Item Number P4040NSE7MMC
Mfg Item Name FCPBGA 1295 37.5SQ3.55P1

SUPPLIER

Company Name Freescale Semiconductor Inc

Company Unique ID14-141-7928Response Date2018-03-09Response Document ID8404A1.6

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

URL for Additional Information

EU RoHS
Pb Free
Phating Indicator
FU RoHS Yes
Plating Indicator
FU RoHS Exemption(s)

Yes
Yes
Yes
Function (s)

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MANUFACTURING

Mfg Item Number P4040NSE7MMC

Mfg Item Name FCPBGA 1295 37.5SQ3.55P1

VersionALLWeight13.971000UoMgUnit VolumeEACHJ-STD-020 MSL Rating3Peak Processing Temperature245 CMax Time at Peak Temperature30 secondsNumber of Processing Cycles3

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%
Bonding Agent	0.0115						q				
Bonding Agent		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.005175	g	450000	45	370	0.037
Bonding Agent		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.0046	g	400000	40	329	0.0329
Bonding Agent		Solvents, additives, and other materials	Dimethylvinylated and trimethylated silica	68988-89-6		0.001725	g	150000	15	123	0.0123
Underfill	0.0657						g				
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.00029197	g	4444	0.4444	20	0.002
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.00029197	g	4444	0.4444	20	0.002
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00729999	g	111111	11.1111	522	0.0522
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00072999	g	11111	1.1111	52	0.0052
Underfill		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.00291997	g	44444	4.4444	209	0.0209
Underfill		Glass	Silica, vitreous	60676-86-0		0.04745013	g	722224	72.2224	3396	0.3396
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.00160597	g	24444	2.4444	114	0.0114
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds			0.00511001	g	77778	7.7778	365	0.0365
Heat Spreader	7.532						g				
Heat Spreader		Metals	Copper, metal	7440-50-8		7.50778462	g	996785	99.6785	537400	53.74
Heat Spreader		Nickel (external applications only)	Nickel	7440-02-0		0.02421538	g	3215	0.3215	1733	0.1733
Die Encapsulant, Filler	1.8864						g				
Die Encapsulant, Filler		Metals	Aluminum, metal	7429-90-5		1.358208	g	720000	72	97216	9.7216
Die Encapsulant, Filler		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.169776	g	90000	9	12152	1.2152
Die Encapsulant, Filler		Metals	Zinc oxide	1314-13-2		0.339552	g	180000	18	24304	2.4304
Die Encapsulant, Filler		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.018864	g	10000	1	1350	0.135
Solder Balls - Lead Free	1.2821						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00642204	g	5009	0.5009	459	0.0459
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.03853223	g	30054	3.0054	2758	0.2758
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		1.23714573	g	964937	96.4937	88550	8.855
Pb-free Bumped Semiconductor D	0.3932						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.001966	g	5000	0.5	140	0.014
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00123858	g	3150	0.315	88	0.0088
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.03414942	g	86850	8.685	2444	0.2444
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0035388	g	9000	0.9	253	0.0253
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.3523072	g	896000	89.6	25217	2.5217
Organic Substrate	2.8001						g				
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.01489093	g	5318	0.5318	1065	0.1065
Organic Substrate		Metals	Copper, metal	7440-50-8		1.29268578	g	461657	46.1657	92526	9.2526
Organic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.03589728	g	12820	1.282	2569	0.2569
Organic Substrate		Plastics/polymers	Other Epoxy resins	-		0.0309299	g	11046	1.1046	2213	0.2213
Organic Substrate		Metals	Talc	14807-96-6		0.00172206	g	615	0.0615	123	0.0123
Organic Substrate		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.03589728	g	12820	1.282	2569	0.2569
Organic Substrate		Plastics/polymers	Other polymers	-		0.16153777	g	57690	5.769	11562	1.1562
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.54508707	g	194667	19.4667	39015	3.9015
Organic Substrate		Glass	Silicon dioxide	7631-86-9		0.44651795	g	159465	15.9465	31960	3.196
Organic Substrate		Metals	Silver, metal	7440-22-4		0.00095763	g	342	0.0342	68	0.0068
Organic Substrate		Metals	Tin, metal	7440-31-5		0.0308039	g	11001	1.1001	2204	0.2204
Organic Substrate		Metals	Copper phthalocyanine	147-14-8		0.0001008	g	36	0.0036	7	0.0007
Organic Substrate		Solvents, additives, and other materials	Oxirane, 2,2,2,2-[1,2- ethanediylidenetetrakis(4,1phenyleneoxymethylene)]tetra kis	7328-97-4		0.20307165	g	72523	7.2523	14535	1.4535

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