PART INFORMATION	
Mfg Item Number	MPC8270CZUQLDA
Mfg Item Name	FTBGA 480 37*37*1.7P1.27

SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-02-07
Response Document ID	5222K10951D013A1.36
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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Authorized Representative	Daniel Binyon
Representative Title	EPP Customer Response
Representative Phone	512-895-3406
Representative Email	eppanlst@freescale.com
URL for Additional Information	www.freescale.com

DECLARATION	
EU RoHS	No
Pb Free	No
HalogenFree	Yes
Plating Indicator	e0
EU RoHS Exemption(s)	

MANUFACTURING	
Mfg Item Number	MPC8270CZUQLDA
Mfg Item Name	FTBGA 480 37*37*1.7P1.27
Version	ALL
Weight	10.627200
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	4
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 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 Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Conditions of Sale applicable to such part(s) shall apply.
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

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%		ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.024						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		0.00020282	g	8451	0.8451		19	0.0019
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0031099	g	129579	12.9579		292	0.0292
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00020282	g	8451	0.8451		19	0.0019
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.02048446	g	853519	85.3519		1927	0.1927
Solder Balls - Low Lead	1.1855						g					
Solder Balls - Low Lead		Metals	Aluminum, metal	7429-90-5		0.00000948	g	8	0.0008		0	0
Solder Balls - Low Lead		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.0000083	g	7	0.0007		0	0
Solder Balls - Low Lead		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00002371	g	20	0.002		2	0.0002
Solder Balls - Low Lead		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00001304	g	11	0.0011		1	0.0001
Solder Balls - Low Lead		Metals	Copper, metal	7440-50-8		0.00001186	g	10	0.001		1	0.0001
Solder Balls - Low Lead		Metals	Iron, metal	7439-89-6		0.00002015	g	17	0.0017		1	0.0001
Solder Balls - Low Lead		Lead/Lead Compounds	Lead	7439-92-1		0.42680134	g	360018	36.0018		40161	4.0161
Solder Balls - Low Lead		Nickel (external applications only)	Nickel	7440-02-0		0.00004386	g	37	0.0037		4	0.0004
Solder Balls - Low Lead		Metals	Silver, metal	7440-22-4		0.02361279	g	19918	1.9918		2221	0.2221
Solder Balls - Low Lead		Metals	Tin, metal	7440-31-5		0.73494717	g	619947	61.9947		69157	6.9157
Solder Balls - Low Lead		Metals	Zinc, metal	7440-66-6		0.0000083	g	7	0.0007		0	0
Die Encapsulant, Halogen-free	0.3717						g					
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.022302	g	60000	6		2098	0.2098
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003717	g	10000	1		349	0.0349
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.007434	g	20000	2		699	0.0699
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.018585	g	50000	5		1748	0.1748
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.319662	g	860000	86		30079	3.0079
Organic Substrate	8.9455						g					
Organic Substrate		Metals	Aluminum, metal	7429-90-5		0.00044728	g	50	0.005		42	0.0042
Organic Substrate		Solvents, additives, and other materials	Other Aromatic hydrocarbon compounds	-		0.00013418	g	15	0.0015		12	0.0012
Organic Substrate		Metals	Other barium compounds	-		0.0000984	g	11	0.0011		9	0.0009
Organic Substrate		Metals	Copper, metal	7440-50-8		8.90399287	g	995360	99.536		837869	83.7869
Organic Substrate		Metals	Cupric oxide	1317-38-0		0.01234479	g	1380	0.138		1161	0.1161
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00136866	g	153	0.0153		128	0.0128
Organic Substrate		Solvents, additives, and other materials	Other inorganic compounds.	-		0.00027731	g	31	0.0031		26	0.0026
Organic Substrate		Metals	Manganese, metal	7439-96-5		0.00044728	g	50	0.005		42	0.0042
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00086771	g	97	0.0097		81	0.0081
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-		0.00266576	g	298	0.0298		250	0.025
Organic Substrate		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00000895	g	1	0.0001		0	0
Organic Substrate		Plastics/polymers	Plastic: PI - Polyimide	-		0.00847139	g	947	0.0947		797	0.0797
Organic Substrate		Metals	Zirconium, metal	7440-67-7		0.00889183	g	994	0.0994		836	0.0836
Organic Substrate		Plastics/polymers	Proprietary Material-Other acrylic/epoxy resin mixture	-		0.00518839	g	580	0.058		488	0.0488
Organic Substrate		Plastics/polymers	Other non-halogenated polymers	-		0.0002952	g	33	0.0033		27	0.0027
Silicon Semiconductor Die	0.076						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00152	g	20000	2		143	0.0143
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.07448	g	980000	98		7008	0.7008
Bonding Wire, PdCu	0.0245						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.02392058	g	976350	97.635		2250	0.225
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.00004155	g	1696	0.1696		3	0.0003
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00053787	g	21954	2.1954		50	0.005

LINKS	
MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MPC8270CZUQLDA_IPC1752_v11.xml

http://www.freescale.com/mcds/MPC8270CZUQLDA_IPC1752A.xml