SUPPLIER

URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 KCU8280VVUPEA

 Mfg Item Name
 FTBGA 480 37*37*1.7P1.27

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-03-16 Response Document ID 5222K10951D014A1.6 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

EU RoHS
Pb Free
Yes
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

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MANUFACTURING Mfg Item Number KCU8280VVUPEA Mfg Item Name FTBGA 480 37*37*1.7P1.27 Version ALL Weight 10.255600 UoM 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, 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%
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	303	0.0303
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	1997	0.1997
Solder Balls - Lead Free	0.8139						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.0000057	g	7	0.0007	0	0
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.0000057	g	7	0.0007	0	0
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000407	g	5	0.0005	0	0
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0056973	g	7000	0.7	555	0.0555
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00001465	g	18	0.0018	1	0.0001
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00004558	g	56	0.0056	4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.03060264	g	37600	3.76	2983	0.2983
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.77752436	g	955307	95.5307	75814	7.5814
Die Encapsulant, Halogen-free	0.3717						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.022302	g	60000	6	2174	0.2174
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003717	g	10000	1	362	0.0362
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.007434	g	20000	2	724	0.0724
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.018585	g	50000	5	1812	0.1812
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.319662	g	860000	86	31169	3.1169
Organic Substrate	8.9455						g				
Organic Substrate		Metals	Aluminum, metal	7429-90-5		0.00044728	g	50	0.005	43	0.0043
Organic Substrate		Solvents, additives, and other materials	Other Aromatic hydrocarbon compounds	-		0.00013418	g	15	0.0015	13	0.0013
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	868226	86.8226
Organic Substrate		Metals	Cupric oxide	1317-38-0		0.01234479	g	1380	0.138	1203	0.1203
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00136866	g	153	0.0153	133	0.0133
Organic Substrate		Solvents, additives, and other materials	Other inorganic compounds.	-		0.00027731	g	31	0.0031	27	0.0027
Organic Substrate		Metals	Manganese, metal	7439-96-5		0.00044728	g	50	0.005	43	0.0043
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00086771	g	97	0.0097	84	0.0084
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-		0.00266576	g	298	0.0298	259	0.0259
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	826	0.0826
Organic Substrate		Metals	Zirconium, metal	7440-67-7		0.00889183	g	994	0.0994	867	0.0867
Organic Substrate		Plastics/polymers	Proprietary Material-Other acrylic/epoxy resin mixture	-		0.00518839	g	580	0.058	505	0.0505
Organic Substrate		Plastics/polymers	Other non-halogenated polymers	-		0.0002952	g	33	0.0033	28	0.0028
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	148	0.0148
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.07448	g	980000	98	7262	0.7262
Bonding Wire, Copper	0.0245						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.023765	g	970000	97	2317	0.2317
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000735	g	30000	3	71	0.0071

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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/KCU8280VVUPEA_IPC1752_v11.xml

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