SUPPLIER

URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 MC8641VJ1333JE

 Mfg Item Name
 FCCBGA 994 33*33*2.7P1.0

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2015-12-10 Response Document ID 8441K11156D017M1.1 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
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

www.freescale.com

MANUFACTURING MC8641VJ1333JE Mfg Item Number FCCBGA 994 33*33*2.7P1.0 Mfg Item Name Version ALL Weight 5.396300 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	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%
Capacitor, 0306	0.1462						q				
Capacitor, 0306		Metals	Copper, metal	7440-50-8		0.0201756	g	138000	13.8	3738	0.3738
Capacitor, 0306		Nickel (external applications only)	Nickel	7440-02-0		0.028509	g	195000	19.5	5283	0.5283
Capacitor, 0306		Metals	Tin, metal	7440-31-5		0.0019006	g	13000	1.3	352	0.0352
Capacitor, 0306		Metals	Barium titanate	12047-27-7		0.0956148	g	654000	65.4	17718	1.7718
Capacitor Solder Paste	0.0534						g				
Capacitor Solder Paste		Metals	Copper, metal	7440-50-8		0.000267	g	5000	0.5	49	0.0049
Capacitor Solder Paste		Lead/Lead Compounds	Lead	7439-92-1		0.00000443	g	83	0.0083	0	0
Capacitor Solder Paste		Metals	Silver, metal	7440-22-4		0.001602	g	30000	3	296	0.0296
Capacitor Solder Paste		Metals	Tin, metal	7440-31-5		0.05152657	g	964917	96.4917	9548	0.9548
Ceramic Substrate	3.9198						g				
Ceramic Substrate		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.10669696	g	27220	2.722	19772	1.9772
Ceramic Substrate		Metals	Barium oxide	1304-28-5		0.63687342	g	162476	16.2476	118020	11.802
Ceramic Substrate		Metals	Boron oxide	1303-86-2		0.1402818	g	35788	3.5788	25995	2.5995
Ceramic Substrate		Solvents, additives, and other materials	Calcium monoxide	1305-78-8		0.0775258	g	19778	1.9778	14366	1.4366
Ceramic Substrate		Metals	Chromium oxide	1308-38-9		0.01358211	g	3465	0.3465	2516	0.2516
Ceramic Substrate		Metals	Copper, metal	7440-50-8		0.49623492	g		12.6597	91958	9.1958
Ceramic Substrate		Metals	Cuprous oxide	1317-39-1		0.00313584	g	800	0.08	581	0.0581
Ceramic Substrate		Metals	Gold, metal	7440-57-5		0.002297	g		0.0586	425	0.0425
Ceramic Substrate		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00156792	g	400	0.04	290	0.029
Ceramic Substrate		Lead/Lead Compounds	Lead	7439-92-1		0.00001176	g	3	0.0003	2	0.0002
Ceramic Substrate		Metals	Magnesium-oxide	1309-48-4		0.00313584	g	800	0.08	581	0.0581
Ceramic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.01587911	g	4051	0.4051	2942	0.2942
Ceramic Substrate		Metals	Palladium, metal	7440-05-3		0.00019599	g	50	0.005	36	0.0036
Ceramic Substrate		Glass	Silicon dioxide	7631-86-9		2.34703513	g	598764	59.8764	434959	43.4959
Ceramic Substrate		Metals	Strontium Oxide	1314-11-0		0.00837269	g	2136 16	0.2136 0.0016	1551	0.1551 0.0011
Ceramic Substrate		Metals Metals	Titanium (IV) Oxide	13463-67-7 1314-13-2		0.00006272	g	16	0.0013	11	0.0009
		Metals Metals		1314-13-2		0.06686003	g	17057	1.7057	12389	1.2389
Ceramic Substrate Solder Balls - Pb Free, Sn/Ag	0.8139	Metals	Zirconium oxide	1314-23-4		0.06686003	9	17057	1.7057	12389	1.2389
Solder Balls - Pb Free, Sn/Ag Solder Balls - Pb Free, Sn/Ag	0.6139	Metals	Silver, metal	7440-22-4		0.0284865	g	35000	3.5	5278	0.5278
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.7854135	g	965000	96.5	145546	14.5546
Solder Paste	0.0855	Wetals	Till, Hetai	7440-01-0		0.7004100	a	303000	30.0	143340	14.0040
Solder Paste	0.0000	Solvents, additives, and other materials	Proprietary Material-Other aromatic amines	_		0.00211219	g	24704	2.4704	391	0.0391
Solder Paste		Metals	Copper, metal	7440-50-8		0.00052805	a		0.6176	97	0.0097
Solder Paste		Solvents, additives, and other materials	Other organic compounds.	-		0.00364239	a	42601	4.2601	674	0.0674
Solder Paste		Metals	Silver, metal	7440-22-4		0.00286656	a	33527	3.3527	531	0.0531
Solder Paste		Metals	Tin, metal	7440-31-5		0.07204024	a	842576	84.2576	13349	1.3349
Solder Paste		Solvents, additives, and other materials	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	9038-95-3		0.00431057	g		5.0416	798	0.0798
			ether				ŭ				
Underfill	0.0726						g				
Underfill		Solvents, additives, and other materials	4,4'-Diamino-3,3'-diethyl-diphenylmethane	19900-65-3		0.007986	g		11	1479	0.1479
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.0000726	g	1000	0.1	13	0.0013
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.0005808	g		0.8	107	0.0107
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.010164	9	140000	14	1883	0.1883
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00726	9	100000	10	1345	0.1345
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0000726	g	1000	0.1	13	0.0013
Underfill		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.002904	g	40000	4	538	0.0538
Underfill		Glass	Silica, vitreous	60676-86-0		0.04356	g	600000	60	8072	0.8072
Pb-free Bumped Semiconductor D	0.3049						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.0015245	g	5000	0.5	282	0.0282
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00096044	g	3150	0.315	177	0.0177
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.02648057	g		8.685	4907	0.4907
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0027441	g		0.9	508	0.0508
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.27319039	g	896000	89.6	50625	5.0625

LINKS MCD LINK NXP website http://www.nxp.com GENERAL ENVIRONMENTAL COMPLIANCE LINKS http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf RoHS signed letter China RoHS http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf REACH signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf ELV signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf Conflict Minerals statement 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 http://www.nxp.com/support/sales-and-support:SUPPORTHOME Technical Service Request

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/MC8641VJ1333JE_IPC1752_v11.xml

http://www.freescale.com/mcds/MC8641VJ1333JE_IPC1752A.xml