URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

MC8640TVU1067NE

FCCBGA 994 33*33*2.7P1.0

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2015-12-10 8441K11156D013M1.2 Response Document ID 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

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MANUFACTURING Mfg Item Number MC8640TVU1067NE Mfg Item Name FCCBGA 994 33*33*2.7P1.0 Version ALL Weight 5.438700 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

2011/65/EU **RoHS Directive** 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 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 **RoHS Legal Definition** 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. Sale applicable to such part(s) shall apply. **RoHS Declaration** 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions Accepted Supplier Acceptance Signature **Daniel Binyon Exemption List Version** 2012/51/EU Exemptions in this part 15:Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages 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 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						g				
Capacitor, 0306		Metals	Copper, metal	7440-50-8		0.0201756	g	138000	13.8	3709	0.3709
Capacitor, 0306		Nickel (external applications only)	Nickel	7440-02-0		0.028509	g	195000	19.5	5241	0.5241
Capacitor, 0306		Metals	Tin, metal	7440-31-5		0.0019006	g	13000	1.3	349	0.0349
Capacitor, 0306		Metals	Barium titanate	12047-27-7		0.0956148	g	654000	65.4	17580	1.758
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	294	0.0294
Capacitor Solder Paste		Metals	Tin, metal	7440-31-5		0.05152657	g	964917	96.4917	9474	0.9474
Ceramic Substrate	3.9198						g				
Ceramic Substrate		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.10669696	g	27220	2.722	19618	1.9618
Ceramic Substrate		Metals	Barium oxide	1304-28-5		0.63687342	g	162476	16.2476	117100	11.71
Ceramic Substrate		Metals	Boron oxide	1303-86-2		0.1402818	g	35788	3.5788	25793	2.5793
Ceramic Substrate		Solvents, additives, and other materials	Calcium monoxide	1305-78-8		0.0775258	g	19778	1.9778	14254	1.4254
Ceramic Substrate		Metals	Chromium oxide	1308-38-9		0.01358211	g	3465	0.3465	2497	0.2497
Ceramic Substrate		Metals	Copper, metal	7440-50-8		0.49623492	g	126597	12.6597	91241	9.1241
Ceramic Substrate		Metals	Cuprous oxide	1317-39-1		0.00313584	g	800	0.08	576	0.0576
Ceramic Substrate		Metals	Gold, metal	7440-57-5		0.002297	g	586	0.0586	422	0.0422
Ceramic Substrate		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00156792	g	400	0.04	288	0.0288
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	q	800	0.08	576	0.0576
Ceramic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.01587911	q	4051	0.4051	2919	0.2919
Ceramic Substrate		Metals	Palladium, metal	7440-05-3		0.00019599	q	50	0.005	36	0.0036
Ceramic Substrate		Glass	Silicon dioxide	7631-86-9		2.34703513	a	598764	59.8764	431565	43.1565
Ceramic Substrate		Metals	Strontium Oxide	1314-11-0		0.00837269	a	2136	0.2136	1539	0.1539
Ceramic Substrate		Metals	Titanium (IV) Oxide	13463-67-7		0.00006272	a	16	0.0016	11	0.0011
Ceramic Substrate		Metals	Zinc oxide	1314-13-2		0.00005096	a	13	0.0013	9	0.0009
Ceramic Substrate		Metals	Zirconium oxide	1314-23-4		0.06686003	a	17057	1.7057	12293	1.2293
Solder Balls - Pb Free, Sn/Ag	0.8139						a				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.0284865	a	35000	3.5	5237	0.5237
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.7854135	a	965000	96.5	144411	14.4411
Solder Paste	0.0855						a				
Solder Paste		Solvents, additives, and other materials	Proprietary Material-Other aromatic amines	_		0.00211219	a	24704	2.4704	388	0.0388
Solder Paste		Metals	Copper, metal	7440-50-8		0.00052805	a	6176	0.6176	97	0.0097
Solder Paste		Solvents, additives, and other materials	Other organic compounds.	_		0.00364239	a	42601	4.2601	669	0.0669
Solder Paste		Metals	Silver, metal	7440-22-4		0.00286656	a	33527	3.3527	527	0.0527
Solder Paste		Metals	Tin, metal	7440-31-5		0.07204024	g g	842576	84.2576	13245	1.3245
Solder Paste		Solvents, additives, and other materials	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	9038-95-3		0.00431057	g	50416	5.0416	792	0.0792
Underfill	0.0726						g				
Underfill		Plastics/polymers	Proprietary Material-Other Epoxy resins			0.01452	q	200000	20	2669	0.2669
Underfill		Solvents, additives, and other materials	Other inorganic cyanide compounds	-		0.01452	g g	200000	20	2669	0.2669
Underfill		Solvents, additives, and other materials	Proprietary Material-Other organic silicon compounds	-		0.039204	g	540000	54	7208	0.7208
Underfill		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.002178	g	30000	3	400	0.04
Underfill		Solvents, additives, and other materials	Proprietary Material-Methoxysilane			0.002178	q	30000	3	400	0.04
High Pb Bumped Semiconductor D	0.3473		, ,		15		g				
High Pb Bumped Semiconductor D		Lead/Lead Compounds	Lead	7439-92-1		0.03270767	g	94177	9.4177	6013	0.6013
High Pb Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.00028652	q	825	0.0825	52	0.0052
High Pb Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00172122	a	4956	0.4956	316	0.0316
High Pb Bumped Semiconductor D		Metals	Titanium, metal	7440-32-6		0.00001459	a	42	0.0042	2	0.0002
High Pb Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0031257	a	9000	0.9	574	0.0574
High Pb Bumped Semiconductor D		Glass	Silicon, doped	_		0.3094443	O.	891000	89.1	56896	5.6896
riigh F b bumped Semiconductor D		Glass	эшсоп, аореа			0.5094445	9	691000	03.1	50090	3.0090

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http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

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IPC1752 XML LINKS

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