

**PART INFORMATION**

Mfg Item Number	T2080NXE8P1B
Mfg Item Name	FC 896 25x25 2.46 Lidded

**SUPPLIER**

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-08-16
Response Document ID	00KDK50008S331A1.2
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
URL for Additional Information	www.freescale.com

**DECLARATION**

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e1
EU RoHS Exemption(s)	

**MANUFACTURING**

Mfg Item Number	T2080NXE8P1B
Mfg Item Name	FC 896 25x25 2.46 Lidded
Version	ALL
Weight	6.159800
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	250 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 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	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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Bonding Agent	0.0078						g				
Bonding Agent		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.00351	g	450000	45	569	0.0569
Bonding Agent		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.00312	g	400000	40	506	0.0506
Bonding Agent		Solvents, additives, and other materials	Dimethylsilylated and trimethylsilylated silica	68988-89-6		0.00117	g	150000	15	189	0.0189
Solder Balls - Lead Free	0.2223						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.001135	g	5009	0.5009	180	0.018
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.006681	g	30054	3.0054	1084	0.1084
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.2145055	g	964937	96.4937	34823	3.4823
Die Encapsulant, Filler	0.0155						g				
Die Encapsulant, Filler		Metals	Aluminum, metal	7429-90-5		0.01116	g	720000	72	1811	0.1811
Die Encapsulant, Filler		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.001395	g	90000	9	226	0.0226
Die Encapsulant, Filler		Metals	Zinc oxide	1314-13-2		0.00279	g	180000	18	452	0.0452
Die Encapsulant, Filler		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.000155	g	10000	1	25	0.0025
Underfill	0.0251						g				
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.0001255	g	5000	0.5	20	0.002
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.0001255	g	5000	0.5	20	0.002
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.003765	g	150000	15	611	0.0611
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00251	g	100000	10	407	0.0407
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0001255	g	5000	0.5	20	0.002
Underfill		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.000753	g	30000	3	122	0.0122
Underfill		Glass	Silica, vitreous	60676-86-0		0.01506	g	600000	60	2444	0.2444
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.0001255	g	5000	0.5	20	0.002
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-		0.00251	g	100000	10	407	0.0407
Ceramic Substrate	2.8433						g				
Ceramic Substrate		Arsenic/Arsenic Compounds	Arsenic	7440-39-2		0.00067955	g	239	0.0239	110	0.011
Ceramic Substrate		Metals	Barium sulfate	7727-43-7		0.02753736	g	9685	0.9685	4470	0.447
Ceramic Substrate		Metals	Copper, metal	7440-50-8		1.35801979	g	477821	47.7821	220464	2.20464
Ceramic Substrate		Plastics/polymers	Epikote 862	28064-14-4		0.35145178	g	123607	12.3607	57055	5.7055
Ceramic Substrate		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.22362555	g	78650	7.865	38304	3.8304
Ceramic Substrate		Metals	Talc	14807-96-6		0.00315606	g	1110	0.111	512	0.0512
Ceramic Substrate		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.02847281	g	10014	1.0014	4622	0.4622
Ceramic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.34711291	g	122081	12.2081	56351	5.6351
Ceramic Substrate		Glass	Silicon dioxide	7631-86-9		0.290227	g	102074	10.2074	47116	4.7116
Ceramic Substrate		Metals	Silver, metal	7440-22-4		0.0013136	g	462	0.0462	213	0.0213
Ceramic Substrate		Metals	Tin, metal	7440-31-5		0.04222301	g	14850	1.485	6854	0.6854
Ceramic Substrate		Metals	Aluminum Hydroxide	21645-51-2		0.1693043	g	59545	5.9545	27485	2.7485
Ceramic Substrate		Metals	Copper phthalocyanine	147-14-8		0.00017628	g	62	0.0062	28	0.0028
Pb-free Bumped Semiconductor D	0.2025						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.0010125	g	5000	0.5	164	0.0164
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00063788	g	3150	0.315	103	0.0103
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.01758713	g	86850	8.685	2855	0.2855
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.0018225	g	9000	0.9	295	0.0295
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.18143999	g	896000	89.6	29455	2.9455
Heat Spreader	2.8433						g				
Heat Spreader		Metals	Copper, metal	7440-50-8		2.80919746	g	988006	98.8006	456072	45.6072
Heat Spreader		Nickel (external applications only)	Nickel	7440-02-0		0.03410254	g	11994	1.1994	5536	0.5536

## LINKS

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

IPC1752 XML LINKS

[http://www.freescale.com/mcdfs/T2080NXE8P1B\\_IPC1752\\_v11.xml](http://www.freescale.com/mcdfs/T2080NXE8P1B_IPC1752_v11.xml)

[http://www.freescale.com/mcdfs/T2080NXE8P1B\\_IPC1752A.xml](http://www.freescale.com/mcdfs/T2080NXE8P1B_IPC1752A.xml)