PART INFORMATION

 Mfg Item Number
 MC68711E20MFNE2

 Mfg Item Name
 PLCC 52

SUPPLIER

Company Name

Freescale Semiconductor Inc
Company Unique ID

14-141-7928

Response Date 2017-06-10 Response Document ID 0805K00064D071A1.19 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

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DECLARATION
FURNHS

EU RoHSYesPb FreeYesHalogenFreeYesPlating Indicatore3EU RoHS Exemption(s)EU RoHS Exemption(s)

MANUFACTURING
Mfg Item Number
MC68711E20MFNE2

Mfg Item Name PLCC 52 Version ALL Weight 2.962550 UoM 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, 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
Lxomptions	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

omogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
oxy Die Attach	0.0017					g				
oxy Die Attach		Solvents, additives, and other materials	Other aliphatic amines	-	0.00009529	g	56050	5.605	32	0.0032
poxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins		0.00026853	g	157959	15.7959	90	0.009
poxy Die Attach		Metals	Silver, metal	7440-22-4	0.00124089	g	729941	72.9941	418	0.0418
oxy Die Attach		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.00009529	g	56050	5.605	32	0.0032
e Encapsulant, Halogen-free	2.2001					g				
e Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins		0.04562127	g	20736	2.0736	15399	1.5399
e Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.01357682	g	6171	0.6171	4582	0.4582
e Encapsulant, Halogen-free		Metals	Magnesium Aluminum Hydroxide Carbonate	11097-59-9	0.0043452	g	1975	0.1975	1466	0.1466
e Encapsulant, Halogen-free		Metals	Magnesium dihydroxide	1309-42-8	0.41275636	g	187608	18.7608	139324	13.9324
e Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins		0.04562127	g	20736	2.0736	15399	1.5399
Encapsulant, Halogen-free		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7	0.10318909	g	46902	4.6902	34831	3.4831
e Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	1.57498999	g	715872	71.5872	531643	53.1643
pper Lead Frame	0.71565					g				
pper Lead Frame		Metals	Copper, metal	7440-50-8	0.68985439	g	963955	96.3955	232858	23.2858
pper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00059041	g	825	0.0825	199	0.0199
pper Lead Frame		Metals	Iron, metal	7439-89-6	0.01681778	g	23500	2.35	5676	0.5676
pper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1	0.00012166	g	170	0.017	41	0.0041
pper Lead Frame		Metals	Silver, metal	7440-22-4	0.0071565	g	10000	1	2415	0.2415
ppper Lead Frame		Metals	Tin, metal	7440-31-5	0.0002147	g	300	0.03	72	0.0072
pper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00089456	g	1250	0.125	301	0.0301
ad Frame Plating	0.0209					g				
ad Frame Plating		Lead/Lead Compounds	Lead	7439-92-1	0.00000418	g	200	0.02	1	0.0001
ad Frame Plating		Metals	Tin, metal	7440-31-5	0.02089582	g	999800	99.98	7053	0.7053
icon Semiconductor Die	0.0227					g				
con Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000454	g	20000	2	153	0.0153
con Semiconductor Die		Glass	Silicon, doped	-	0.022246	g	980000	98	7509	0.7509
nding Wire	0.0015					g				
nding Wire		Metals	Gold, metal	7440-57-5	0.0015	a	1000000	100	506	0.0506

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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/MC68711E20MFNE2_IPC1752_v11.xml

http://www.freescale.com/mcds/MC68711E20MFNE2_IPC1752A.xml