URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

S9S08RN32W1MLC

LQFP 32 7*7*1.4P0.8

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-10-05 Response Document ID 6300K00010D129A1.2 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

DECLARATION

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

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MANUFACTURING Mfg Item Number S9S08RN32W1MLC Mfg Item Name LQFP 32 7*7*1.4P0.8 Version ALL Weight 0.184800 UoM Unit Volume EACH J-STD-020 MSL Rating 3 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								

								0.1.5		4.55101.50
lomogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
poxy Die Attach	0.00045					g				
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00004875	g	108343	10.8343	263	0.0263
Epoxy Die Attach		Plastics/polymers	Other Epoxy resins		0.00001463	g	32502	3.2502	79	0.0079
poxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.00001463	g	32502	3.2502	79	0.0079
Epoxy Die Attach		Solvents, additives, and other materials	1-cyanoguanidine	461-58-5	0.00000146	g	3250	0.325	7	0.0007
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6	0.00000488	g	10834	1.0834	26	0.0026
poxy Die Attach		Metals	Silver, metal	7440-22-4	0.00036565	g	812569	81.2569	1978	0.1978
Bonding Wire, Copper	0.0005					g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8	0.000485	g	970000	97	2624	0.2624
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000015	g	30000	3	81	0.0081
ilicon Semiconductor Die	0.00555					g				
ilicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000111	g	20000	2	600	0.06
ilicon Semiconductor Die		Glass	Silicon, doped		0.005439	g	980000	98	29431	2.9431
ie Encapsulant, Halogen-free	0.11565					g				
ie Encapsulant, Halogen-free		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.0050886	g	44000	4.4	27535	2.7535
ie Encapsulant, Halogen-free		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.00011565	g	1000	0.1	625	0.0625
ie Encapsulant, Halogen-free		Plastics/polymers	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde and phenol	25917-04-8	0.00034695	g	3000	0.3	1877	0.1877
ie Encapsulant, Halogen-free		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6	0.00451035	g	39000	3.9	24406	2.4406
ie Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	0.10558845	g	913000	91.3	571376	57.1376
opper Lead Frame	0.06265					g				
opper Lead Frame		Metals	Copper, metal	7440-50-8	0.05945485	g	949000	94.9	321725	32.1725
opper Lead Frame		Solvents, additives, and other materials	Silicon	7440-21-3	0.00045421	g	7250	0.725	2457	0.2457
opper Lead Frame		Metals	Magnesium, metal	7439-95-4	0.00010964	g	1750	0.175	593	0.0593
opper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0	0.0020048	g	32000	3.2	10848	1.0848
opper Lead Frame		Metals	Silver, metal	7440-22-4	0.0006265	q	10000	1	3390	0.339

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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/S9S08RN32W1MLC_IPC1752_v11.xml

http://www.freescale.com/mcds/S9S08RN32W1MLC_IPC1752A.xml