URL for Additional Information

PART INFORMATION

Mfg Item Number

MG9S08PT32VLC

Mfg Item Name

LQFP 32 7*7*1.4P0.8

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-05-15 6300K11060D060A1.9 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

DECLARATION

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

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MANUFACTURING Mfg Item Number MC9S08PT32VLC Mfg Item Name LQFP 32 7*7*1.4P0.8 Version ALL Weight 0.188600 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

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
_ead Frame Plating	0.0038						g				
_ead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.00000076	g	200	0.02	4	0.0004
_ead Frame Plating		Metals	Tin, metal	7440-31-5		0.00379924	g	999800	99.98	20144	2.0144
Bonding Wire, Copper	0.0005						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.000485	g	970000	97	2571	0.2571
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000015	g	30000	3	79	0.0079
licon Semiconductor Die	0.00555						g				
ilicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000111	g	20000	2	588	0.0588
ilicon Semiconductor Die		Glass	Silicon, doped	-		0.005439	g	980000	98	28838	2.8838
Epoxy Die Attach	0.00045						g				
poxy Die Attach		Plastics/polymers	Epikote 862	28064-14-4		0.0000765	g	170000	17	405	0.0405
poxy Die Attach		Metals	Silver, metal	7440-22-4		0.0003375	g	750000	75	1789	0.1789
poxy Die Attach		Solvents, additives, and other materials	2-ethylhexyl glycidyl ether	2461-15-6		0.000036	g	80000	8	190	0.019
Copper Lead Frame	0.06265						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.05892621	g	940562	94.0562	312440	31.244
opper Lead Frame		Solvents, additives, and other materials	Silicon	7440-21-3		0.00045421	g	7250	0.725	2408	0.2408
opper Lead Frame		Metals	Iron, metal	7439-89-6		0.00007831	g	1250	0.125	415	0.0415
opper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00001961	g	313	0.0313	103	0.0103
opper Lead Frame		Metals	Magnesium, metal	7439-95-4		0.00010964	g	1750	0.175	581	0.0581
opper Lead Frame		Metals	Manganese, metal	7439-96-5		0.00003916	g	625	0.0625	207	0.0207
opper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0		0.0020048	g	32000	3.2	10629	1.0629
opper Lead Frame		Metals	Silver, metal	7440-22-4		0.0006265	g	10000	1	3321	0.3321
opper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00039156	g	6250	0.625	2076	0.2076
ie Encapsulant	0.11565						g				
ie Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00017324	g	1498	0.1498	918	0.0918
ie Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.00636075	g	55000	5.5	33726	3.3726
ie Encapsulant		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.00289125	g	25000	2.5	15330	1.533
ie Encapsulant		Glass	Silica, vitreous	60676-86-0		0.10252396	g	886502	88.6502	543616	54.3616
Die Encapsulant		Plastics/polymers	Other Non-halogenated Epoxy resins			0.0037008	q	32000	3.2	19622	1.9622

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/MC9S08PT32VLC_IPC1752_v11.xml

http://www.freescale.com/mcds/MC9S08PT32VLC_IPC1752A.xml