URL for Additional Information

EU RoHS Exemption(s)

PART INFORMATION

Mfg Item Number

Mfg Item Name

S9S12DG25F0MPVE

LQFP 112 20*20*1.4P0.65

SUPPLIER

Company Name

Company Unique ID

Response Date

2018-01-08

Response Date 2018-01-08 Response Document ID 8255K00006D201A1.15 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

DECLARATIONEU RoHSYesPb FreeYesHalogenFreeYesPlating Indicatore3

www.freescale.com

MANUFACTURING Mfg Item Number S9S12DG25F0MPVE LQFP 112 20*20*1.4P0.65 Mfg Item Name Version ALL Weight 1.278300 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							
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							

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Homogeneous Material	Weight				SubstanceWeight		SubPart PPM		ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0108					g				
Epoxy Die Attach		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0.00000003	g	3	0.0003	0	0
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00201324	g	186411	18.6411	1574	0.1574
Epoxy Die Attach		Lead/Lead Compounds	Lead	7439-92-1	0.00000008	g	7	0.0007	0	0
Epoxy Die Attach		Metals	Silver, metal	7440-22-4	0.00878665	g	813579	81.3579	6873	0.6873
Lead Frame Plating	0.0105					g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1	0.0000021	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5	0.0104979	g	999800	99.98	8212	0.8212
Copper Lead Frame	0.1702					g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8	0.16406514	g	963955	96.3955	128346	12.8346
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00014042	g	825	0.0825	109	0.0109
Copper Lead Frame		Metals	Iron, metal	7439-89-6	0.0039997	g	23500	2.35	3128	0.3128
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1	0.00002893	g	170	0.017	22	0.0022
Copper Lead Frame		Metals	Silver, metal	7440-22-4	0.001702	g	10000	1	1331	0.1331
Copper Lead Frame		Metals	Tin, metal	7440-31-5	0.00005106	g	300	0.03	39	0.0039
Copper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00021275	g	1250	0.125	166	0.0166
Bonding Wire, Copper	0.0024					g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8	0.002328	g	970000	97	1821	0.1821
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000072	g	30000	3	56	0.0056
Die Encapsulant	1.0564					g				
Die Encapsulant		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.0464816	g	44000	4.4	36362	3.6362
Die Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.0010564	g	1000	0.1	826	0.0826
Die Encapsulant		Plastics/polymers	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde and phenol	25917-04-8	0.0031692	g	3000	0.3	2479	0.2479
Die Encapsulant		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6	0.0411996	g	39000	3.9	32229	3.2229
Die Encapsulant		Glass	Silica, vitreous	60676-86-0	0.9644932	g	913000	91.3	754522	75.4522
Silicon Semiconductor Die	0.028					g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.00056	g	20000	2	438	0.0438
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.02744	g	980000	98	21466	2.1466

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/S9S12DG25F0MPVE_IPC1752_v11.xml

http://www.freescale.com/mcds/S9S12DG25F0MPVE_IPC1752A.xml