URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

S9S12HY48J0CLH

LQFP 64 10*10*1.4P0.5

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-10-05 8426K00020D203A1.7 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 S9S12HY48J0CLH LQFP 64 10*10*1.4P0.5 Mfg Item Name Version ALL Weight 0.343050 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								

lomogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
poxy Die Attach	0.0002					g				
poxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00002167	g	108343	10.8343	63	0.0063
poxy Die Attach		Plastics/polymers	Other Epoxy resins	-	0.0000065	g	32502	3.2502	18	0.0018
poxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0000065	g	32502	3.2502	18	0.0018
poxy Die Attach		Solvents, additives, and other materials	1-cyanoguanidine	461-58-5	0.00000065	g	3250	0.325	1	0.0001
poxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6	0.00000217	g	10834	1.0834	6	0.0006
poxy Die Attach		Metals	Silver, metal	7440-22-4	0.00016251	g	812569	81.2569	473	0.0473
licon Semiconductor Die	0.00895					g				
licon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000179	g	20000	2	521	0.0521
licon Semiconductor Die		Glass	Silicon, doped	-	0.008771	g	980000	98	25567	2.5567
onding Wire, Copper	0.0023					g				
onding Wire, Copper		Metals	Copper, metal	7440-50-8	0.002231	g	970000	97	6503	0.6503
onding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000069	g	30000	3	201	0.0201
e Encapsulant, Halogen-free	0.2512					g				
e Encapsulant, Halogen-free		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.0108016	g	43000	4.3	31486	3.1486
e Encapsulant, Halogen-free		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.00042704	g	1700	0.17	1244	0.1244
e Encapsulant, Halogen-free		Plastics/polymers	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde and phenol	25917-04-8	0.00067824	g	2700	0.27	1977	0.1977
e Encapsulant, Halogen-free		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6	0.00969632	g	38600	3.86	28265	2.8265
e Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	0.2295968	g	914000	91.4	669291	66.9291
opper Lead Frame	0.0804					g				
opper Lead Frame		Metals	Copper, metal	7440-50-8	0.07734183	g	961963	96.1963	225453	22.5453
opper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00006641	g	826	0.0826	193	0.0193
opper Lead Frame		Metals	Iron, metal	7439-89-6	0.00188683	g	23468	2.3468	5500	0.55
pper Lead Frame		Metals	Silver, metal	7440-22-4	0.00010138	g	1261	0.1261	295	0.0295
opper Lead Frame		Metals	Zinc. metal	7440-66-6	0.00100355	0	12482	1,2482	2925	0.2925

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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/S9S12HY48J0CLH_IPC1752_v11.xml

http://www.freescale.com/mcds/S9S12HY48J0CLH_IPC1752A.xml