MAPBGA 541 19*19*1.4P.75 Freescale Semiconductor Inc 14-141-7928 2018-04-20 00L2K00245D001A1.0 Freescale Semiconductor Inc
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EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indic	e1
EU RoHS E	ption(s)

MANUFACTURING	
Mfg Item Number	MCIMX7D7DVM10SD
Mfg Item Name	MAPBGA 541 19*19*1.4P.75
Version	ALL
Weight	0.912000
UoM	g
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 identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an 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 provides as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Company's 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 Supplier Standard Terms and Conditions of Sale ap						
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						
	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						

MATERIAL COMPOSITION

Homogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Silicon Semiconductor Die	0.0102					g				
ilicon Semiconductor Die		Solvents, additives, and other materials Othe	r miscellaneous substances (less than 5%).	-	0.000204	g	20000	2	223	0.0223
ilicon Semiconductor Die		Glass Silico	on, doped	-	0.009996	g	980000	98	10960	1.096
rganic Substrate, Halogen-fre	0.1938					g				
rganic Substrate, Halogen-fre		Solvents, additives, and other materials Prop	rietary Material-Other acrylates	-	0.0084491	g	43597	4.3597	9264	0.9264
rganic Substrate, Halogen-fre		Metals Bariu	ım sulfate	7727-43-7	0.0054857	g	28306	2.8306	6015	0.6015
rganic Substrate, Halogen-fre		Metals Chro	mium, metal	7440-47-3	0	g	0	0	0	0
rganic Substrate, Halogen-fre		Metals Copp	per, metal	7440-50-8	0.04633062	g	239064	23.9064	50801	5.0801
rganic Substrate, Halogen-fre		Metals Cupr	ic oxide	1317-38-0	0.03977706	g	205248	20.5248	43615	4.3615
ganic Substrate, Halogen-fre		Metals Talc		14807-96-6	0.00065853	g	3398	0.3398	722	0.0722
ganic Substrate, Halogen-fre		Nickel (external applications only) Nickel	el	7440-02-0	0.00078218	g	4036	0.4036	857	0.0857
ganic Substrate, Halogen-fre			rietary Material-Other organic compounds.	-	0.0001093	g	564	0.0564	119	0.0119
rganic Substrate, Halogen-fre			nol, polymer with formaldehyde	9003-35-4	0.04266216	g	220135	22.0135	46778	4.6778
rganic Substrate, Halogen-fre			bus-glass-wool	65997-17-3	0.04471857	g	230746	23.0746	49033	4.9033
rganic Substrate, Halogen-fre			a, vitreous	60676-86-0	0.0001093	q	564	0.0564	119	0.0119
rganic Substrate, Halogen-fre			metal	7440-66-6	0	a	0	0	0	0
ganic Substrate, Halogen-fre		Solvents, additives, and other materials Prop	rietary Material-Other miscellaneous substances.		0.00131687	a	6795	0.6795	1443	0.1443
ganic Substrate, Halogen-fre			thoxy-3-methyl-1-butyl acetate	103429-90-9	0.00329131	a	16983	1.6983	3608	0.3608
ganic Substrate, Halogen-fre			alocyanine Blue	57455-37-5	0.0001093	a	564	0.0564	119	0.0119
n-Conductive Epoxy/Adhesive	0.0014				0.0001000	a		0.0001	110	0.0110
on-Conductive Epoxy/Adhesive	0.0014	Solvents, additives, and other materials Prop	rietary Material-Other acrylates		 0.0000966	a	69000	6.9	105	0.0105
n-Conductive Epoxy/Adhesive			r Epoxy resins		0.0000056	a	4000	0.4	6	0.0006
n-Conductive Epoxy/Adhesive			rietary Material-Other Epoxy resins		 0.0000966	a	69000	6.9	105	0.0105
n-Conductive Epoxy/Adhesive			on dioxide	7631-86-9	0.00028	a	200000	20	307	0.0307
n-Conductive Epoxy/Adhesive			rietary Material-Other Bismaleimides	-	0.00028	g	200000	20	307	0.0307
n-Conductive Epoxy/Adhesive			ated silica	68909-20-6	0.00063	g	450000	45	690	0.069
n-Conductive Epoxy/Adhesive			r organosilane compounds	00000-20-0	0.0000056	9	4000	0.4	6	0.0006
on-Conductive Epoxy/Adhesive			nidazole-1-propanenitrile, 2-ethyl-4-methyl-	23996-25-0	0.0000056	g	4000	0.4	6	0.0006
nding Wire, Other	0.0001			23990-23-0	0.0000000	g	4000	0.4	0	0.0000
nding Wire, Other	0.0001	Solvents, additives, and other materials Calci	ium.	7440-70-2	0	g	20	0.002	0	0
onding Wire, Other			. metal	7440-70-2	0.00009905	g	990480	99.048	108	0.0108
•			1	7440-05-3	0.0000095	g	9500	0.95	1	0.0001
nding Wire, Other	0.0899	Palla	dium, metal	7440-00-3	0.0000095	g	9500	0.95		0.0001
older Balls - Lead Free	0.0899	Metals Coop	nor metal	7440-50-8	0.00044995	g	5005	0.5005	493	0.0493
Ider Balls - Lead Free			per, metal			g			493	0.00493
Ider Balls - Lead Free		Nickel (external applications only) Nicke		7440-02-0	0.00004504	g	501	0.0501		
der Balls - Lead Free			r, metal	7440-22-4	0.00107997	g	12013	1.2013	1184	0.1184
der Balls - Lead Free		Metals Tin, r	metal	7440-31-5	0.08832504	g	982481	98.2481	96847	9.6847
e Encapsulant, Halogen-free	0.6166					g				
e Encapsulant, Halogen-free			on Black	1333-86-4	0.003083	g	5000	0.5	3380	0.338
e Encapsulant, Halogen-free			rietary Material-Other phenolic resins	-	0.0240474	g	39000	3.9	26367	2.6367
e Encapsulant, Halogen-free			a, vitreous	60676-86-0	0.5524736	g	896000	89.6	605798	60.5798
ie Encapsulant, Halogen-free		Plastics/polymers Prop	rietary Material-Other Non-halogenated Epoxy resing	; -	0.036996	g	60000	6	40565	4.0565

LINKS	
MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
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
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MCIMX7D7DVM10SD_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX7D7DVM10SD_IPC1752A.xml