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Mg Item Name PBGA 256 23*23*1.22P1.27   SUPPLIER Freescale Semiconductor Inc   Company Name Freescale Semiconductor Inc   Company Unique ID 14-141-7928   Response Date 2017-03-15   Response Document ID 5061K10792D029A1.48   Contact Name Freescale Semiconductor Inc   Contact Title Product Technical Support   Contact Email support@freescale.com   Authorized Representative Daniel Binyon   Representative Title EPP Customer Response   Representative Email eppanlst@freescale.com   Quelt for Additional Information www.freescale.com   Were Kernel 512-895-3406	Mfg Item Number	MPC852TCVR50A	
Company NameFreescale Semiconductor IncCompany Unique ID14.14.7928Response Date2017-03.15Response Document ID5061K10792D029A1.48Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Phone1.800-521.6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895.3406Representative Emaileppanlst@freescale.com	Mfg Item Name	PBGA 256 23*23*1.22P1.27	
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Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.com	Contact Title	Product Technical Support	
Authorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.com	Contact Phone	1-800-521-6274	
Representative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.com	Contact Email	support@freescale.com	
Representative Phone 512-895-3406   Representative Email eppanIst@freescale.com	Authorized Representative	Daniel Binyon	
Representative Email eppanIst@freescale.com	Representative Title	EPP Customer Response	
	Representative Phone	512-895-3406	
URL for Additional Information www.freescale.com	Representative Email	eppanIst@freescale.com	
	URL for Additional Information	www.freescale.com	

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e1
EU RoHS Exemption(s)	

MANUFACTURING	
Mfg Item Number	MPC852TCVR50A
Mfg Item Name	PBGA 256 23*23*1.22P1.27
Version	ALL
Weight	1.662950
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	245 C
Max Time at Peak Temperature	30 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	SubstanceClass	Substance	CAS Exem	nption S	ubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	0.76215						g				
Die Encapsulant		Metals	Aluminum, metal	7429-90-5	0.0	02354739	g	30896	3.0896	14160	1.416
e Encapsulant		Arsenic/Arsenic Compounds	Arsenic	7440-38-2	0.0	00000076	g	1	0.0001	0	0
e Encapsulant		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0.0	00000076	g	1	0.0001	0	0
ie Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0	02354739	g	30896	3.0896	14160	1.416
e Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.0	00235504	g	3090	0.309	1416	0.1416
e Encapsulant		Lead/Lead Compounds	Lead	7439-92-1	0.0	00000076	g	1	0.0001	0	0
e Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.0	00235504	g	3090	0.309	1416	0.1416
e Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-	0.0	0431697	g	56642	5.6642	25959	2.5959
e Encapsulant		Glass	Silica, vitreous	60676-86-0	0.6	66717316	q	875383	87.5383	401216	40.1216
oxy Die Attach	0.0171						q				
boxy Die Attach		Solvents, additives, and other materials	1,3,5-Triazine-2,4-diamine, 6-[2-(2-methyl-1H-imidazol-1- yl)ethyl]	38668-46-1	0.0	00014451	g	8451	0.8451	86	0.0086
oxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.0	0022158	g	129579	12.9579	1332	0.1332
oxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6	0.0	00014451	g	8451	0.8451	86	0.0086
oxy Die Attach		Metals	Silver, metal	7440-22-4	0.0	01459518	g	853519	85.3519	8776	0.8776
nding Wire	0.0143						g				
nding Wire		Metals	Gold, metal	7440-57-5	0.0	0143	g	1000000	100	8599	0.8599
icon Semiconductor Die	0.0639						g				
con Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.0	001278	g	20000	2	768	0.0768
con Semiconductor Die		Glass	Silicon, doped	-	0.0	062622	q	980000	98	37657	3.7657
Ider Balls - Lead Free	0.4341						q				
Ider Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0	0.0	00000304	q	7	0.0007	1	0.0001
Ider Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2	0.0	00000304	q	7	0.0007	1	0.0001
Ider Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9	0.0	00000217	q	5	0.0005	1	0.0001
lder Balls - Lead Free		Metals	Copper, metal	7440-50-8	0.0	0030387	a	7000	0.7	1827	0.1827
Ider Balls - Lead Free		Metals	Iron, metal	7439-89-6		00000781	a	18	0.0018	4	0.0004
Ider Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1	0.0	00002431	a	56	0.0056	14	0.0014
lder Balls - Lead Free		Metals	Silver, metal	7440-22-4		01632216	a	37600	3.76	9815	0.9815
older Balls - Lead Free		Metals	Tin, metal	7440-31-5		41469877	a	955307	95.5307	249375	24.9375
ganic Substrate	0.3714						a				
ganic Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3	0.0	00261354	g	7037	0.7037	1571	0.1571
ganic Substrate		Metals	Barium sulfate	7727-43-7	0.0	02425613	g	65310	6.531	14586	1.4586
ganic Substrate		Metals	Copper, metal	7440-50-8		03368747	g	90704	9.0704	20257	2.0257
rganic Substrate		Plastics/polymers	2,2-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	1675-54-3	0.0	00118662	g	3195	0.3195	713	0.0713
ganic Substrate		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.0	01390633	g	37443	3.7443	8362	0.8362
ganic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.1	13051963	g	351426	35.1426	78486	7.8486
ganic Substrate		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0	0020531	g	5528	0.5528	1234	0.1234
ganic Substrate		Metals	Gold, metal	7440-57-5	0.0	00073054	g	1967	0.1967	439	0.0439
ganic Substrate		Solvents, additives, and other materials	Silicon	7440-21-3	0.0	00031383	g	845	0.0845	188	0.0188
ganic Substrate		Nickel (external applications only)	Nickel	7440-02-0	0.0	0074176	g	19972	1.9972	4460	0.446
ganic Substrate		Glass	Fibrous-glass-wool	65997-17-3	0.1	12397555	g	333806	33.3806	74551	7.4551
ganic Substrate		Plastics/polymers	Other acrylic resins	-		01844372	g	49660	4.966	11090	1.109
ganic Substrate		Plastics/polymers	Other acrylic/epoxy resin mixture			01229594	a	33107	3.3107	7394	0.7394



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

