EU RoHS Exemption(s)

PART INFORMATION

Mfg Item Number MPX5100DP
Mfg Item Name 6 PIN UNIBODY DUAL PORT

SUPPLIER

Company Name Freescale Semiconductor Inc

Company Unique ID 14-141-7928 Response Date 2013-06-19 0877K50010S198A1.22 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**

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DECLARATION

EU RoHS
Pb Free
Yes
HalogenFree
No
Plating Indicator

Yes

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MANUFACTURING
Mfg Item Number
MPX5100DP

Mfg Item Name 6 PIN UNIBODY DUAL PORT

Version ALL
Weight 5.241450
UoM g
Unit Volume EACH

J-STD-020 MSL Rating
Peak Processing Temperature 220 C
Max Time at Peak Temperature 30 seconds

Max Time at Peak Temperature 30 second Secon

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							

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	1.01505						q				
Die Encapsulant		Antimony/Antimony Compounds	Antimony trioxide	1309-64-4		0.02445052	g	24088	2.4088	4664	0.4664
Die Encapsulant		Flame Retardants	Bromophenol, formaldehyde, epichlorohydrin polymer	68541-56-0		0.03260036	g	32117	3.2117	6219	0.6219
Die Encapsulant		Plastics/polymers	Formaldehyde, polymer with 2-methylphenol, glycidyl ether	64425-89-4		0.16300079	g	160584	16.0584	31098	3.1098
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00280154	g	2760	0.276	534	0.0534
Die Encapsulant		Lead/Lead Compounds	Lead	7439-92-1		0.0000132	g	13	0.0013	2	0.0002
Die Encapsulant		Solvents, additives, and other materials	(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3		0.00366738	g	3613	0.3613	699	0.0699
Die Encapsulant		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.09576286	g	94343	9.4343	18270	1.827
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.69275335	g	682482	68.2482	132168	13.2168
Non-Conductive Epoxy/Adhesive	0.0078						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Silicone gum	67762-94-1		0.00008053	g	10324	1.0324	15	0.0015
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and Silicones, di-Me, Me vinyl, vinyl group- terminated	68083-18-1		0.00095871	g	122911	12.2911	182	0.0182
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.00306784	g	393313	39.3313	585	0.0585
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.00172566	g	221239	22.1239	329	0.0329
Non-Conductive Epoxy/Adhesive		Glass	D4 and HMDZ treated Silicon Dioxide	68937-51-9		0.00115045	g	147493	14.7493	219	0.0219
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.00072861	g	93412	9.3412	139	0.0139
Non-Conductive Epoxy/Adhesive		Metals	Titanium (IV) Oxide	13463-67-7		0.0000882	g	11308	1.1308	16	0.0016
Port	3.4436						g				
Port		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.103308	g	30000	3	19709	1.9709
Port		Antimony/Antimony Compounds	Antimony trioxide	1309-64-4		0.103308	g	30000	3	19709	1.9709
Port		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0189398	g	5500	0.55	3613	0.3613
Port		Plastics/polymers	Polybutylene terephthalate (PBT)	30965-26-5		2.5293242	g	734500	73.45	482582	48.2582
Port		Glass	Fibrous-glass-wool	65997-17-3		0.68872	g	200000	20	131398	13.1398
Bonding Wire	0.001						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.001	g	1000000	100	190	0.019
Gel Die Encapsulant	0.1503						g				
Gel Die Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other inorganic fluorine compounds and their aqueous salts	-		0.1503	g	1000000	100	28675	2.8675
Copper Lead Frame	0.3125						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.302535	g	968112	96.8112	57719	5.7719
Copper Lead Frame		Metals	Gold, metal	7440-57-5		0.00003125	g	100	0.01	5	0.0005
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.00681875	g	21820	2.182	1300	0.13
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.000005	g	16	0.0016	0	0
Copper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0		0.00261781	g	8377	0.8377	499	0.0499
Copper Lead Frame		Metals	Palladium, metal	7440-05-3		0.00013313	g	426	0.0426	25	0.0025
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00035906	g	1149	0.1149	68	0.0068
Bonding Agent	0.3073						g				
Bonding Agent		Metals	Proprietary Material-Other aluminum compounds			0.138285	g	450000	45	26382	2.6382
Bonding Agent		Solvents, additives, and other materials	Other guanidine compounds	-		0.0076825	g	25000	2.5	1465	0.1465
Bonding Agent		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0076825	q	25000	2.5	1465	0.1465
Bonding Agent		Plastics/polymers	Other phenolic resins	-		0.15365	q	500000	50	29314	2.9314
Silicon Semiconductor Die	0.0039						a				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000078	a	20000	2	14	0.0014
Silicon Semiconductor Die		Glass	Silicon, doped			0.003822	9	980000	QR.	729	0.0729

LINKS

MCD LINK

http://www.freescale.com Freescale website

GENERAL ENVIRONMENTAL COMPLIANCE LINKS

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdf RoHS signed letter China RoHS http://www.freescale.com/chinarohs

REACH signed letter $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdf$

ELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdf **Conflict Minerals statement** $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf$

FREESCALE ENVIRONMENTAL INFORMATION

EPP website http://www.freescale.com/epp

FAQ http://www.freescale.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQ

Technical Service Request

LINKS TO BLANK IPC1752 FORMS

https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod

Blank IPC1752 v1.1 Form http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf IPC1752 XML LINKS

http://www.freescale.com/mcds/MPX5100DP_IPC1752_v11.xml

http://www.freescale.com/mcds/MPX5100DP_IPC1752A.xml