

PART INFORMATION

Mfg Item Number	MPX4400AP
Mfg Item Name	6 PIN UNIBODY GAUGE PORT

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2013-06-19
Response Document ID	0868K50010S201A1.5
Contact Name	Freescale Semiconductor Inc
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DECLARATION

EU RoHS	Yes
Pb Free	No
HalogenFree	No
Plating Indicator	e4
EU RoHS Exemption(s)	7c-l

MANUFACTURING

Mfg Item Number	MPX4400AP
Mfg Item Name	6 PIN UNIBODY GAUGE PORT
Version	ALL
Weight	3.376300
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	
Peak Processing Temperature	
Max Time at Peak Temperature	
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 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 Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemptions in this part	7c-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
List of Freescale Accepted Exemptions	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

MATERIAL COMPOSITION

SubPart	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	REACHPPM	REACH%
Die Encapsulant	1.0178						g				
Die Encapsulant		Flame Retardants	Antimony trioxide	1309-64-4		0.024517	g	24088	2.4088	7261	0.7261
Die Encapsulant		Flame Retardants	Bromophenol, formaldehyde, epichlorohydrin polymer	68541-56-0		0.032689	g	32117	3.2117	9681	0.9681
Die Encapsulant		Plastics/polymers	Formaldehyde, polymer with 2-methylphenol, glycidyl ether	64425-89-4		0.163442	g	160584	16.0584	48408	4.8408
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.002899	g	2760	0.276	831	0.0831
Die Encapsulant		Metals	Lead, metallic lead and lead alloys	7439-92-1		0.000913	g	13	0.0013	3	0.0003
Die Encapsulant		Solvents, additives, and other materials	(3,4-Epoxy)cyclohexylethyltrimethoxysilane	3388-04-3		0.006777	g	3613	0.3613	1089	0.1089
Die Encapsulant		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.096022	g	94343	9.4343	28440	2.844
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.694631	g	682482	68.2482	205741	20.5741
Non-Conductive Epoxy/Adhesive	0.0078						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Silicone gum	67762-94-1		0.00081	g	10324	1.0324	23	0.0023
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated	68083-18-1		0.000959	g	122911	12.2911	284	0.0284
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.003067	g	393313	39.3313	908	0.0908
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.001126	g	221239	22.1239	511	0.0511
Non-Conductive Epoxy/Adhesive		Glass	D4 and HMDZ treated Silicon Dioxide	68937-51-9		0.00115	g	147493	14.7493	340	0.034
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.000729	g	93412	9.3412	215	0.0215
Non-Conductive Epoxy/Adhesive		Metals	Titanium (IV) Oxide	13463-67-7		0.000088	g	11308	1.1308	26	0.0026
Port	1.7241						g				
Port		Metals	Antimony, metal	7440-36-0		0.051723	g	30000	3	15319	1.5319
Port		Flame Retardants	Antimony trioxide	1309-64-4		0.051723	g	30000	3	15319	1.5319
Port		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.009483	g	5500	0.55	2808	0.2808
Port		Plastics/polymers	Polybutylene terephthalate (PBT)	30665-26-5		1.266351	g	734500	73.45	375083	37.5083
Port		Glass	Fibrous-glass-wool	65997-17-3		0.34482	g	200000	20	102131	10.2131
Bonding Wire	0.001						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.001	g	1000000	100	296	0.0296
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	44516	4.4516
Copper Lead Frame	0.3167						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.306601	g	958112	95.8112	90810	9.081
Copper Lead Frame		Metals	Gold, metal	7440-57-5		0.000032	g	100	0.01	9	0.0009
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.00591	g	21820	2.182	2046	0.2046
Copper Lead Frame		Metals	Lead, metallic lead and lead alloys	7439-92-1		0.000005	g	16	0.0016	1	0.0001
Copper Lead Frame		Metals	Nickel, metal	7440-02-0		0.002653	g	8377	0.8377	785	0.0785
Copper Lead Frame		Metals	Palladium, metal	7440-05-3		0.000135	g	426	0.0426	39	0.0039
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.000364	g	1149	0.1149	107	0.0107
Bonding Agent	0.1547						g				
Bonding Agent		Metals	Proprietary Material-Other aluminum compounds	-		0.069615	g	450000	45	20618	2.0618
Bonding Agent		Solvents, additives, and other materials	Other guanidine compounds	-		0.003968	g	25000	2.5	1145	0.1145
Bonding Agent		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003868	g	25000	2.5	1145	0.1145
Bonding Agent		Plastics/polymers	Other phenolic resins	-		0.077349	g	500000	50	22909	2.2909
Pb Glass Fit Semiconductor Di	0.0039						g				
Pb Glass Fit Semiconductor Di		Metals	Lead titanium oxide (PbTiO3)	12090-00-3	7c1	0.00004	g	10381	1.0381	11	0.0011
Pb Glass Fit Semiconductor Di		Glass	Fibrous-glass-wool	65997-17-3		0.000039	g	9943	0.9943	11	0.0011
Pb Glass Fit Semiconductor Di		Solvents, additives, and other materials	2,2,4-trimethyl-1,3-pentanediol-1-monoisobutyrate	25265-77-4		0.000039	g	9943	0.9943	11	0.0011
Pb Glass Fit Semiconductor Di		Glass	Silicon, doped	-		0.003782	g	969733	96.9733	1120	0.112

LINKS

MCD LINK

Freescale website <http://www.freescale.com>

GENERAL ENVIRONMENTAL COMPLIANCE LINKS

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

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

LINKS TO BLANK IPC1752 FORMS

Blank IPC1752 v0.9 Form http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v0.9_MCD_Template.pdf

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/mcdfs/MPX4400AP_IPC1752_v09.xml

http://www.freescale.com/mcdfs/MPX4400AP_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MPX4400AP_IPC1752A.xml