PART INFORMATION

Mfg Item Number

Mfg Item Name

MPX4115AP

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 0868K50010S201A1.25 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 **URL** for Additional Information www.freescale.com

EU RoHS
Pb Free
No
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

Partial Description

Yes
No
No
Foliation

Yes
No
No
To-I

MANUFACTURING Mfg Item Number MPX4115AP 6 PIN UNIBODY GAUGE PORT Mfg Item Name Version ALL Weight 3.376300 UoM Unit Volume EACH J-STD-020 MSL Rating Peak Processing Temperature Max Time at Peak Temperature Number of Processing Cycles

2011/65/EU **RoHS Directive** 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 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 **RoHS Legal Definition** 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. Sale applicable to such part(s) shall apply. 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions **RoHS Declaration** 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 6(a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight List of Freescale Accepted Exemptions 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 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 cèramic 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

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		0.002809	g	2760	0.276	831	0.0831
Die Encapsulant		Metals	Lead, metallic lead and lead alloys	7439-92-1		0.000013	g	13	0.0013	3	0.0003
Die Encapsulant		Solvents, additives, and other materials	(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3		0.003677	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		0.000081	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	-		0.001726	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)	30965-26-5		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	968112	96.8112	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		0.00691	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	-		0.003868	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 Frit Semiconductor Di	0.0039				7c-l		g				
Pb Glass Frit Semiconductor Di		Metals	Lead titanium oxide (PbTiO3)	12060-00-3		0.00004	g	10381	1.0381	11	0.0011
Pb Glass Frit Semiconductor Di		Glass	Fibrous-glass-wool	65997-17-3		0.000039	g	9943	0.9943	11	0.0011
		Solvents, additives, and other materials	2,2,4-trimethyl-1,3-pentanediol-1-monoisobutyrate	25265-77-4		0.000039		9943	0.9943	11	0.0011
Pb Glass Frit Semiconductor Di		Solvents, additives, and other materials	2,2,4-tilliletriyi-1,3-peritariedibi-1-monoisobutyrate	20200-11-4		0.000039	g	3343	0.3343	The second second	0.0011

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 http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdf ELV signed letter

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf Conflict Minerals statement FREESCALE ENVIRONMENTAL INFORMATION

EPP website

http://www.freescale.com/epp

FAQ

Technical Service Request

LINKS TO BLANK IPC1752 FORMS

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

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

Blank IPC1752 v0.9 Form $http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v0.9_MCD_Template.pdf$ http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

http://www.freescale.com/mcds/MPX4115AP_IPC1752_v09.xml

http://www.freescale.com/mcds/MPX4115AP_IPC1752_v11.xml

http://www.freescale.com/mcds/MPX4115AP_IPC1752A.xml