

PART INFORMATION

Mfg Item Number	MPX2200GP
Mfg Item Name	4 PIN UNIBODY GAUGE PORT

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2013-06-19
Response Document ID	0867K50010S188A1.22
Contact Name	Freescale Semiconductor Inc
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Representative Title	EPP Customer Response
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URL for Additional Information	www.freescale.com

DECLARATION

EU RoHS	Yes
Pb Free	Yes
HalogenFree	No
Plating Indicator	e4
EU RoHS Exemption(s)	

MANUFACTURING

Mfg Item Number	MPX2200GP
Mfg Item Name	4 PIN UNIBODY GAUGE PORT
Version	ALL
Weight	3.183200
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	1 - Item(s) do not contain RoHS restricted substances per the definition above
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemptions in this part	
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	1.0175						g				
Die Encapsulant		Flame Retardants	Antimony trioxide	1309-64-4		0.02451	g	24088	2.4088	7699	0.7699
Die Encapsulant		Flame Retardants	Bromophenol, formaldehyde, epichlorohydrin polymer	68541-56-0		0.032679	g	32117	3.2117	10266	1.0266
Die Encapsulant		Plastics/polymers	Formaldehyde, polymer with 2-methylphenol, glycidyl ether	64425-89-4		0.163394	g	160584	16.0584	51330	5.133
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.002898	g	2760	0.276	882	0.0882
Die Encapsulant		Metals	Lead, metallic lead and lead alloys	7439-92-1		0.000913	g	13	0.0013	4	0.0004
Die Encapsulant		Solvents, additives, and other materials	[3,4-Epoxy)cyclohexylethyltrimethoxysilane	3388-04-3		0.003676	g	3613	0.3613	1154	0.1154
Die Encapsulant		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.095994	g	94343	9.4343	30156	3.0156
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.694426	g	682482	68.2482	218156	21.8156
Non-Conductive Epoxy/Adhesive	0.0082						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Silicone gum	67762-94-1		0.000085	g	10324	1.0324	26	0.0026
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated	68083-18-1		0.001008	g	122911	12.2911	316	0.0316
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.003225	g	393313	39.3313	1013	0.1013
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.001814	g	221239	22.1239	569	0.0569
Non-Conductive Epoxy/Adhesive		Glass	D4 and HMDZ treated Silicon Dioxide	68937-51-9		0.001209	g	147493	14.7493	379	0.0379
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.000766	g	93412	9.3412	240	0.024
Non-Conductive Epoxy/Adhesive		Metals	Titanium (IV) Oxide	13463-67-7		0.000093	g	11308	1.1308	29	0.0029
Port	1.7241						g				
Port		Metals	Antimony, metal	7440-36-0		0.051723	g	30000	3	16248	1.6248
Port		Flame Retardants	Antimony trioxide	1309-64-4		0.051723	g	30000	3	16248	1.6248
Port		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.009483	g	5500	0.55	2979	0.2979
Port		Plastics/polymers	Polybutylene terephthalate (PBT)	30665-26-5		1.266351	g	734500	73.45	397837	39.7837
Port		Glass	Fibrous-glass-wool	65997-17-3		0.34482	g	200000	20	108325	10.8325
Bonding Wire	0.0005						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.0005	g	1000000	100	157	0.0157
Gel Die Encapsulant	0.1136						g				
Gel Die Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.108036	g	951021	95.1021	33939	3.3939
Gel Die Encapsulant		Solvents, additives, and other materials	Dimethyl Cyclosiloxanes	70900-21-9		0.000348	g	3061	0.3061	109	0.0109
Gel Die Encapsulant		Solvents, additives, and other materials	Dimethyl Siloxane	69430-24-6		0.005216	g	45918	4.5918	1638	0.1638
Copper Lead Frame	0.1605						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.155416	g	968328	96.8328	48823	4.8823
Copper Lead Frame		Metals	Gold, metal	7440-57-5		0.000016	g	100	0.01	5	0.0005
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.003477	g	21663	2.1663	1092	0.1092
Copper Lead Frame		Metals	Lead, metallic lead and lead alloys	7439-92-1		0.000003	g	16	0.0016	0	0
Copper Lead Frame		Metals	Nickel, metal	7440-02-0		0.001338	g	8336	0.8336	420	0.042
Copper Lead Frame		Metals	Palladium, metal	7440-05-3		0.000068	g	424	0.0424	21	0.0021
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.000182	g	1133	0.1133	57	0.0057
Bonding Agent	0.1543						g				
Bonding Agent		Metals	Proprietary Material-Other aluminum compounds	-		0.069435	g	450000	45	21812	2.1812
Bonding Agent		Solvents, additives, and other materials	Other guanidine compounds	-		0.003858	g	25000	2.5	1211	0.1211
Bonding Agent		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003858	g	25000	2.5	1211	0.1211
Bonding Agent		Plastics/polymers	Other phenolic resins	-		0.077149	g	500000	50	24236	2.4236
Silicon Semiconductor Die	0.0045						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.00009	g	20000	2	28	0.0028
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00441	g	980000	98	1385	0.1385

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

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/MPX2200GP_IPC1752_v09.xml

http://www.freescale.com/mcdfs/MPX2200GP_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MPX2200GP_IPC1752A.xml