

PART INFORMATION	
Mfg Item Number	MPXA6115AC7U
Mfg Item Name	SMOUTLN DIP W/AXIAL PORT
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2013-01-08
Response Document ID	0883K50010S527A1.16
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	MPXA6115AC7U
Mfg Item Name	SMOUTLN DIP W/AXIAL PORT
Version	ALL
Weight	1.282600
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	<p>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.</p>
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. piezoelectric 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. piezoelectric 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%
Cap/Cover	0.1958		Metals	Chromium, metal	7440-47-3	0.035286	g	180216	18.0216	27511	2.7511
Cap/Cover		Metals	Sulfur	7704-34-9	0.000059	g	300	0.03	46	0.0046	
Cap/Cover		Solvents, additives, and other materials	Phosphorus	7723-14-0	0.000078	g	400	0.04	60	0.006	
Cap/Cover		Solvents, additives, and other materials	Silicon	7440-21-3	0.00147	g	7509	0.7509	1146	0.1146	
Cap/Cover		Metals	Iron, metal	7439-89-6	0.15647	g	801563	80.1563	122367	12.2367	
Cap/Cover		Metals	Manganese, metal	7439-96-5	0.00196	g	10012	1.0012	1528	0.1528	
Non-Conductive Epoxy/Adhesive	0.0028					g			22	0.0022	
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Silicone gum	67762-94-1	0.000029	g	10324	1.0324	268	0.0268	
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated	68083-18-1	0.000344	g	122911	12.2911	858	0.0858	
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2	0.001101	g	393313	39.3313	482	0.0482	
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other silicones and silicones	-	0.000919	g	221238	22.1238	322	0.0322	
Non-Conductive Epoxy/Adhesive		Glass	D4 and HMDZ-treated Silicon Dioxide	68937-51-9	0.000413	g	147493	14.7493	204	0.0204	
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7	0.000262	g	93412	9.3412	24	0.0024	
Non-Conductive Epoxy/Adhesive		Metals	Titanium (IV) Oxide	13463-67-7	0.000032	g	11508	1.1508			
Port	0.2535					g			1976	0.1976	
Port		Metals	Antimony, metal	7440-36-0	0.002535	g	10000	1	1976	0.1976	
Port		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.002536	g	10000	1	86964	8.6964	
Port		Plastics/polymers	Polybutylene terephthalate (PBT)	30965-26-5	0.111539	g	440000	44	66211	6.6211	
Port		Plastics/polymers	Polyphenylene Sulfide (PPS)	26125-40-6	0.084923	g	335000	33.5	40517	4.0517	
Bonding Wire	0.001		Glass	Fibrous-glass-wool	65997-17-3	0.051968	g	205000	20.5	779	0.0779
Bonding Wire		Metals	Gold, metal	7440-57-5	0.001	g	1000000	100	21830	2.183	
Gel Die Encapsulant	0.028		Solvents, additives, and other materials	Proprietary Material-Other inorganic fluorine compounds and their aqueous salts	-	0.028	g	1000000	100		
Copper Lead Frame	0.7929					g			340984	34.0984	
Copper Lead Frame		Metals	Copper, metal	7440-50-8	0.437334	g	551565	55.1565	13120	1.312	
Copper Lead Frame		Plastics/polymers	Other Epoxy resins	-	0.016828	g	21223	2.1223	488	0.0488	
Copper Lead Frame		Metals	Gold, metal	7440-57-5	0.000627	g	791	0.0791	287	0.0287	
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus	7723-14-0	0.000369	g	465	0.0465	8219	0.8219	
Copper Lead Frame		Metals	Iron, metal	7439-89-6	0.010542	g	13295	1.3295	5143	0.5143	
Copper Lead Frame		Metals	Nickel, metal	7440-02-0	0.006597	g	8320	0.832	252	0.0252	
Copper Lead Frame		Metals	Palladium, metal	7440-05-3	0.000324	g	408	0.0408	78719	7.8719	
Copper Lead Frame		Plastics/polymers	Polyphenylene Sulfide (PPS)	26125-40-6	0.100964	g	127335	12.7335	170557	17.0557	
Copper Lead Frame		Glass	Fibrous-glass-wool	65997-17-3	0.218755	g	275892	27.5892	436	0.0436	
Copper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00056	g	706	0.0706			
Pb Glass Frit Semiconductor Di	0.0086				7c-1	g			69	0.0069	
Pb Glass Frit Semiconductor Di		Metals	Lead titanium oxide (PbTiO3)	12060-00-3	0.000089	g	10381	1.0381	67	0.0067	
Pb Glass Frit Semiconductor Di		Glass	Fibrous-glass-wool	65997-17-3	0.000086	g	9943	0.9943	67	0.0067	
Pb Glass Frit Semiconductor Di		Solvents, additives, and other materials	2,2,4-trimethyl-1,3-pentanediol-1-monoisobutyrate	25265-77-4	0.000086	g	9943	0.9943	6501	0.6501	
Pb Glass Frit Semiconductor Di		Glass	Silicon, doped	-	0.008339	g	969733	96.9733			

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.pdfChina RoHS <http://www.freescale.com/chinarohs>REACH signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdfELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdfConflict 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_FAQTechnical 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.pdfBlank 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/MPXA6115AC7U_IPC1752_v09.xml

http://www.freescale.com/mcds/MPXA6115AC7U_IPC1752_v11.xml

http://www.freescale.com/mcds/MPXA6115AC7U_IPC1752A.xml