

PART INFORMATION	
Mfg Item Number	MPXV5004DP
Mfg Item Name	SNSR 8PIN DUALPORT
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2013-01-08
Response Document ID	0888K50010S256A1.9
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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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
DECLARATION	
EU RoHS	Yes
Pb Free	Yes
HalogenFree	No
Plating Indicator	e4
EU RoHS Exemption(s)	
MANUFACTURING	
Mfg Item Number	MPXV5004DP
Mfg Item Name	SNSR 8PIN DUALPORT
Version	ALL
Weight	2.222900
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	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. 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%
Non-Conductive Epoxy/Adhesive	0.0025	Solvents, additives, and other materials	Other organic Silicon Compounds	-	0.000007	g	2681	0.2681	3	0.0003	
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Other siloxanes and silicones	-	0.002091	g	836461	83.6461	940	0.094	
Non-Conductive Epoxy/Adhesive		Glass	Other silica compounds	-	0.000402	g	160858	16.0858	180	0.018	
Cap/Cover	0.1958	Metals	Chromium, metal	7440-47-3	0.035286	g	180216	18.0216	15873	1.5873	
Cap/Cover		Solvents, additives, and other materials	Sulfur	7704-34-9	0.000059	g	300	0.03	26	0.0026	
Cap/Cover		Solvents, additives, and other materials	Phosphorus	7723-14-0	0.000078	g	400	0.04	35	0.0035	
Cap/Cover		Solvents, additives, and other materials	Silicon	7440-21-3	0.00147	g	7509	0.7509	661	0.0661	
Cap/Cover		Metals	Iron, metal	7439-89-6	0.156947	g	801563	80.1563	70605	7.0605	
Cap/Cover		Metals	Manganese, metal	7439-95-5	0.00196	g	10012	1.0012	881	0.0881	
Port	0.57725	Plastics/polymers	Polyphenylene Sulfide (PPS)	26125-40-6	0.344018	g	595960	59.596	154762	15.4762	
Port		Glass	Proprietary Material-Other glass compounds (without lead, chromium, cadmium or mercury)	-	0.233232	g	404040	40.404	104923	10.4923	
Port	0.57725	Plastics/polymers	Polyphenylene Sulfide (PPS)	26125-40-6	0.344018	g	595960	59.596	154762	15.4762	
Port		Glass	Proprietary Material-Other glass compounds (without lead, chromium, cadmium or mercury)	-	0.233232	g	404040	40.404	104923	10.4923	
Bonding Wire	0.0009	Metals	Gold, metal	7440-57-5	0.0009	g	1000000	100	404	0.0404	
Gel Die Encapsulant	0.037	Solvents, additives, and other materials	Proprietary Material-Other inorganic fluorine compounds and their aqueous salts	-	0.037	g	1000000	100	16644	1.6644	
Copper Lead Frame	0.7788	Metals	Copper, metal	7440-50-8	0.429559	g	551565	55.1565	193251	19.3251	
Copper Lead Frame		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.016526	g	21220	2.122	7434	0.7434	
Copper Lead Frame		Metals	Gold, metal	7440-57-5	0.000616	g	791	0.0791	277	0.0277	
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus	7723-14-0	0.000362	g	486	0.0465	162	0.0162	
Copper Lead Frame		Metals	Iron, metal	7439-89-6	0.010354	g	13295	1.3295	4657	0.4657	
Copper Lead Frame		Metals	Nickel, metal	7440-02-0	0.006462	g	8323	0.8323	2916	0.2916	
Copper Lead Frame		Metals	Palladium, metal	7440-05-3	0.000318	g	408	0.0408	143	0.0143	
Copper Lead Frame		Plastics/polymers	Polyphenylene Sulfide (PPS)	26125-40-6	0.099168	g	127335	12.7335	44611	4.4611	
Copper Lead Frame		Glass	Fibrous-glass-wool	65997-17-3	0.214865	g	275892	27.5892	96660	9.666	
Copper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00055	g	708	0.0706	247	0.0247	
Bonding Agent	0.042	Metals	Proprietary Material-Other aluminum compounds	-	0.0189	g	450000	45	8502	0.8502	
Bonding Agent		Solvents, additives, and other materials	Other guanidine compounds	-	0.00105	g	25000	2.5	472	0.0472	
Bonding Agent		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.00105	g	25000	2.5	472	0.0472	
Bonding Agent		Plastics/polymers	Other phenolic resins	-	0.021	g	500000	50	9447	0.9447	
Silicon Semiconductor Die	0.0114	Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-	0.000228	g	20000	2	102	0.0102	
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.01172	g	980000	98	5025	0.5025	

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/MPXV5004DP_IPC1752_v09.xml

http://www.freescale.com/mcds/MPXV5004DP_IPC1752_v11.xml

http://www.freescale.com/mcds/MPXV5004DP_IPC1752A.xml