

**PART INFORMATION**

Mfg Item Number	MPXV7002DP
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	0888K50010S254A1.9
Contact Name	Freescale Semiconductor Inc
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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	MPXV7002DP
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	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%
Cap/Cover	0.1958						g				
Cap/Cover		Metals	Chromium, metal	7440-47-3		0.03286	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	7439-96-5		0.00196	g	10012	1.0012	881	0.0881
Non-Conductive Epoxy/Adhesive	0.0025						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Silicone gum	67762-94-1		0.000026	g	10324	1.0324	11	0.0011
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated	68083-18-1		0.000307	g	122911	12.2911	138	0.0138
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.000983	g	393313	39.3313	442	0.0442
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.000553	g	221239	22.1239	248	0.0248
Non-Conductive Epoxy/Adhesive		Glass	D4 and HMDZ treated Silicon Dioxide	68937-61-9		0.000369	g	147495	14.7495	165	0.0165
Non-Conductive Epoxy/Adhesive		Glass	Silica, crystalline - quartz (SiO2)	14808-80-7		0.000234	g	93412	9.3412	105	0.0105
Non-Conductive Epoxy/Adhesive		Metals	Titanium (IV) Oxide	13463-67-7		0.000028	g	11308	1.1308	12	0.0012
Port	0.57725						g				
Port		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						g				
Port		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						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.0009	g	1000000	100	404	0.0404
Gel Die Encapsulant	0.037						g				
Gel Die Encapsulant		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						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.429559	g	551565	55.1565	193253	19.3253
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	465	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		0.006482	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	706	0.0706	247	0.0247
Bonding Agent	0.042						g				
Bonding Agent		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						g				
Silicon Semiconductor Die		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	-		0.011172	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.pdf](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](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](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](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](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](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](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/MPXV7002DP\\_IPC1752\\_v09.xml](http://www.freescale.com/mcdfs/MPXV7002DP_IPC1752_v09.xml)

[http://www.freescale.com/mcdfs/MPXV7002DP\\_IPC1752\\_v11.xml](http://www.freescale.com/mcdfs/MPXV7002DP_IPC1752_v11.xml)

[http://www.freescale.com/mcdfs/MPXV7002DP\\_IPC1752A.xml](http://www.freescale.com/mcdfs/MPXV7002DP_IPC1752A.xml)