| PART INFORMATION | |
|---|---|
| Mfg Item Number | MPXHZ6115A6T1 |
| Mfg Item Name | SNSR SSOP 08 W/O PORT |

| SUPPLIER | |
|---|---|
| Company Name | Freescale Semiconductor Inc |
| Company Unique ID | 14-141-7928 |
| Response Date | 2014-11-04 |
| Response Document ID | 0886K50010S204A1.23 |
| 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 |

| DECLARATION | |
|---|---|
| EU RoHS | Yes |
| Pb Free | No |
| HalogenFree | No |
| Plating Indicator | e4 |
| EU RoHS Exemption(s) | 7c-I |

| MANUFACTURING | |
|---|---|
| Mfg Item Number | MPXHZ6115A6T1 |
| Mfg Item Name | SNSR SSOP 08 W/O PORT |
| Version | ALL |
| Weight | 0.374700 |
| UoM | g |
| Unit Volume | EACH |
| J-STD-020 MSL Rating | |
| Peak Processing Temperature | 250 C |
| Max Time at Peak Temperature | 30 seconds |
| 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 | 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions |
| Supplier Acceptance | Accepted |
| Signature | Daniel Binyon |
| Exemption List Version | 2012/51/EU |
| 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 |
| List of Freescale Accepted Exemptions | 6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight |
| | 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 telecommunications |
| | 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 |
| | 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 |

# MATERIAL COMPOSITION

| Homogeneous Material | Weight | SubstanceClass | Substance | CAS | Exemption | SubstanceWeight | UoM | SubPart PPM | SubPart% |  | ARTICLEPPM | ARTICLE% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gel Die Encapsulant | 0.0133 |  |  |  |  |  | g |  |  |  |  |  |
| Gel Die Encapsulant |  | Solvents, additives, and other materials | Fluorosilicone monomer (fluorosilicone rubber) | 2374-14-3 |  | 0.009975 | g | 750000 | 75 |  | 26621 | 2.6621 |
| Gel Die Encapsulant |  | Solvents, additives, and other materials | Plastics: Perfluoropropylether polymer | - |  | 0.003325 | g | 250000 | 25 |  | 8873 | 0.8873 |
| Gel Die Encapsulant | 0.0133 |  |  |  |  |  | g |  |  |  |  |  |
| Gel Die Encapsulant |  | Solvents, additives, and other materials | Fluorosilicone monomer (fluorosilicone rubber) | 2374-14-3 |  | 0.01064 | g | 800000 | 80 |  | 28396 | 2.8396 |
| Gel Die Encapsulant |  | Solvents, additives, and other materials | Plastics: Perfluoropropylether polymer | - |  | 0.00266 | g | 200000 | 20 |  | 7099 | 0.7099 |
| Cap/Cover | 0.0809 |  |  |  |  |  | g |  |  |  |  |  |
| Cap/Cover |  | Metals | Chromium, metal | 7440-47-3 |  | 0.01457947 | g | 180216 | 18.0216 |  | 38909 | 3.8909 |
| Cap/Cover |  | Solvents, additives, and other materials | Sulfur | 7704-34-9 |  | 0.00002427 | g | 300 | 0.03 |  | 64 | 0.0064 |
| Cap/Cover |  | Solvents, additives, and other materials | Phosphorus | 7723-14-0 |  | 0.00003236 | g | 400 | 0.04 |  | 86 | 0.0086 |
| Cap/Cover |  | Solvents, additives, and other materials | Silicon | 7440-21-3 |  | 0.00060748 | g | 7509 | 0.7509 |  | 1621 | 0.1621 |
| Cap/Cover |  | Metals | Iron, metal | 7439-89-6 |  | 0.06484645 | g | 801563 | 80.1563 |  | 173062 | 17.3062 |
| Cap/Cover |  | Metals | Manganese, metal | 7439-96-5 |  | 0.00080997 | g | 10012 | 1.0012 |  | 2161 | 0.2161 |
| Non-Conductive Epoxy/Adhesive | 0.0006 |  |  |  |  |  | g |  |  |  |  |  |
| Non-Conductive Epoxy/Adhesive |  | Solvents, additives, and other materials | Silicone gum | 67762-94-1 |  | 0.00000619 | g | 10324 | 1.0324 |  | 16 | 0.0016 |
| Non-Conductive Epoxy/Adhesive |  | Solvents, additives, and other materials | Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated | 68083-18-1 |  | 0.00007375 | g | 122911 | 12.2911 |  | 196 | 0.0196 |
| Non-Conductive Epoxy/Adhesive |  | Solvents, additives, and other materials | Siloxanes and silicones, di-Me, vinyl group-terminated | 68083-19-2 |  | 0.00023599 | g | 393313 | 39.3313 |  | 629 | 0.0629 |
| Non-Conductive Epoxy/Adhesive |  | Solvents, additives, and other materials | Proprietary Material-Other siloxanes and silicones | - |  | 0.00013274 | g | 221239 | 22.1239 |  | 354 | 0.0354 |
| Non-Conductive Epoxy/Adhesive |  | Glass | D4 and HMDZ treated Silicon Dioxide | 68937-51-9 |  | 0.0000885 | g | 147493 | 14.7493 |  | 236 | 0.0236 |
| Non-Conductive Epoxy/Adhesive |  | Glass | Silica, crystalline - quartz (SiO2) | 14808-60-7 |  | 0.00005605 | g | 93412 | 9.3412 |  | 149 | 0.0149 |
| Non-Conductive Epoxy/Adhesive |  | Metals | Titanium (IV) Oxide | 13463-67-7 |  | 0.00000678 | g | 11308 | 1.1308 |  | 18 | 0.0018 |
| Copper Lead Frame | 0.2529 |  |  |  |  |  | g |  |  |  |  |  |
| Copper Lead Frame |  | Metals | Copper, metal | 7440-50-8 |  | 0.21364688 | g | 844788 | 84.4788 |  | 570196 | 57.0196 |
| Copper Lead Frame |  | Metals | Gold, metal | 7440-57-5 |  | 0.00016894 | g | 668 | 0.0668 |  | 450 | 0.045 |
| Copper Lead Frame |  | Solvents, additives, and other materials | Phosphorus | 7723-14-0 |  | 0.00032599 | g | 1289 | 0.1289 |  | 870 | 0.087 |
| Copper Lead Frame |  | Metals | Iron, metal | 7439-89-6 |  | 0.00487515 | g | 19277 | 1.9277 |  | 13010 | 1.301 |
| Copper Lead Frame |  | Nickel (external applications only) | Nickel | 7440-02-0 |  | 0.00237094 | g | 9375 | 0.9375 |  | 6327 | 0.6327 |
| Copper Lead Frame |  | Metals | Palladium, metal | 7440-05-3 |  | 0.00011608 | g | 459 | 0.0459 |  | 309 | 0.0309 |
| Copper Lead Frame |  | Plastics/polymers | Polyphenylene Sulfide (PPS) | 26125-40-6 |  | 0.00977737 | g | 38661 | 3.8661 |  | 26093 | 2.6093 |
| Copper Lead Frame |  | Glass | Fibrous-glass-wool | 65997-17-3 |  | 0.02118417 | g | 83765 | 8.3765 |  | 56536 | 5.6536 |
| Copper Lead Frame |  | Metals | Zinc, metal | 7440-66-6 |  | 0.00043448 | g | 1718 | 0.1718 |  | 1159 | 0.1159 |
| Pb Glass Frit Semiconductor Di | 0.0131 |  |  |  | 7c-I |  | g |  |  |  |  |  |
| Pb Glass Frit Semiconductor Di |  | Lead/Lead Compounds | Lead (II) titanate | 12060-00-3 |  | 0.00013599 | g | 10381 | 1.0381 |  | 362 | 0.0362 |
| Pb Glass Frit Semiconductor Di |  | Glass | Fibrous-glass-wool | 65997-17-3 |  | 0.00013025 | g | 9943 | 0.9943 |  | 347 | 0.0347 |
| Pb Glass Frit Semiconductor Di |  | Solvents, additives, and other materials | 2,2,4-trimethyl-1,3-pentanediol-1-monoisobutyrate | 25265-77-4 |  | 0.00013025 | g | 9943 | 0.9943 |  | 347 | 0.0347 |
| Pb Glass Frit Semiconductor Di |  | Glass | Silicon, doped | - |  | 0.01270351 | g | 969733 | 96.9733 |  | 33903 | 3.3903 |
| Bonding Wire | 0.0006 |  |  |  |  |  | g |  |  |  |  |  |
| Bonding Wire |  | Metals | Gold, metal | 7440-57-5 |  | 0.0006 | g | 1000000 | 100 |  | 1601 | 0.1601 |

| 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 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/MPXHZ6115A6T1_IPC1752_v11.xml

http://www.freescale.com/mcds/MPXHZ6115A6T1_IPC1752A.xml