

**PART INFORMATION**

Mfg Item Number	A2V07H525-04NR6
Mfg Item Name	OM-1230-4L

**SUPPLIER**

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-05-17
Response Document ID	00NEK00220D016A1.8
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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Representative Title	EPP Customer Response
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Representative Email	eppanlst@freescale.com
URL for Additional Information	www.freescale.com

**DECLARATION**

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e3
EU RoHS Exemption(s)	

**MANUFACTURING**

Mfg Item Number	A2V07H525-04NR6
Mfg Item Name	OM-1230-4L
Version	ALL
Weight	5.288800
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	260 C
Max Time at Peak Temperature	40 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	1 - Item(s) do not contain RoHS restricted substances per the definition above
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
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

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Bonding Wire, Aluminum	0.0044						g				
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0044	g	1000000	100	831	0.0831
Lead Frame Plating	0.0385						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.000077	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.038423	g	999800	99.98	7278	0.7278
Die Encapsulant	1.5083						g				
Die Encapsulant		Solvents, additives, and other materials	Benzophenonetetracarboxylic Acid Dianhydride	2421-28-5		0.1128716	g	74838	7.4838	21342	2.1342
Die Encapsulant		Plastics/polymers	Poly[o-cresyl glycidyl ether]-co-formaldehyde	20690-82-2		0.04515096	g	29935	2.9935	8537	0.8537
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.04515096	g	29935	2.9935	8537	0.8537
Die Encapsulant		Metals	Magnesium, metal	7439-95-4		0.0028232	g	1785	0.1785	509	0.0509
Die Encapsulant		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.008086	g	5361	0.5361	1528	0.1528
Die Encapsulant		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.04515096	g	29935	2.9935	8537	0.8537
Die Encapsulant		Glass	Silica, vitreous	60876-86-0		1.20403968	g	798276	79.8276	227658	22.7658
Die Encapsulant		Plastics/polymers	Poly[phenyl glycidyl ether]-co-dicyclopentadiene	119345-05-0		0.04515096	g	29935	2.9935	8537	0.8537
Silicon Semiconductor Die	0.0037						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00003774	g	10200	1.02	7	0.0007
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.00007325	g	19796	1.9796	13	0.0013
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00358901	g	970004	97.0004	678	0.0678
Copper Lead Frame	0.606						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.58415673	g	963955	96.3955	110451	11.0451
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00049995	g	825	0.0825	94	0.0094
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.014241	g	23500	2.35	2692	0.2692
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00010302	g	170	0.017	19	0.0019
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.00606	g	10000	1	1145	0.1145
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.0001818	g	300	0.03	34	0.0034
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.0007575	g	1250	0.125	143	0.0143
Silicon Semiconductor Die	0.0037						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00003774	g	10200	1.02	7	0.0007
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.00007325	g	19796	1.9796	13	0.0013
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00358901	g	970004	97.0004	678	0.0678
Silicon Semiconductor Die	0.0037						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000074	g	20000	2	13	0.0013
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.003626	g	980000	98	685	0.0685
Heat Sink	3.1205						g				
Heat Sink		Metals	Cobalt, metal	7440-48-4		0.01403289	g	4497	0.4497	2653	0.2653
Heat Sink		Metals	Copper, metal	7440-50-8		3.06553862	g	982387	98.2387	579643	57.9643
Heat Sink		Metals	Gold, metal	7440-57-5		0.00809146	g	2593	0.2593	1529	0.1529
Heat Sink		Nickel (external applications only)	Nickel	7440-02-0		0.02481734	g	7953	0.7953	4692	0.4692
Heat Sink		Metals	Palladium, metal	7440-05-3		0.0049772	g	1595	0.1595	941	0.0941
Heat Sink		Metals	Zirconium, metal	7440-67-7		0.00304249	g	975	0.0975	575	0.0575

## LINKS

MCD LINK	
NXP website	<a href="http://www.nxp.com">http://www.nxp.com</a>
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf</a>
China RoHS	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY</a>
REACH signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf</a>
ELV signed letter	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf</a>
Conflict Minerals statement	<a href="http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf">http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf</a>
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX</a>
FAQ	<a href="http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ">http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ</a>
Technical Service Request	<a href="http://www.nxp.com/support/sales-and-support:SUPPORTHOME">http://www.nxp.com/support/sales-and-support:SUPPORTHOME</a>
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	<a href="http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf">http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf</a>

IPC1752 XML LINKS

[http://www.freescale.com/mcds/A2V07H525-04NR6\\_IPC1752\\_v11.xml](http://www.freescale.com/mcds/A2V07H525-04NR6_IPC1752_v11.xml)

[http://www.freescale.com/mcds/A2V07H525-04NR6\\_IPC1752A.xml](http://www.freescale.com/mcds/A2V07H525-04NR6_IPC1752A.xml)