SUPPLIER

PART INFORMATION

Mfg Item Number

Mfg Item Name

OM780-2 Straight Cu

Company Name
Company Unique ID
Response Date
Response Document ID
Contact Name
Contact Title
Contact Phone
Contact Email

Freescale Semiconductor Inc

14-141-7928
2018-05-16
005UK02204D009A1.11
Freescale Semiconductor Inc

Product Technical Support
1-800-521-6274

Contact Title
Contact Phone
Contact Phone
Contact Email
Authorized Representative
Representative Title
Representative Phone
Representative Phone
Representative Email
URL for Additional Information
Product Technical Support
1-800-521-6274
support@freescale.com
Daniel Binyon
EPP Customer Response
512-895-3406
eppanlst@freescale.com
www.freescale.com

DECLARATION

EU ROHS
Pb Free
Yes
Ves

HalogenFree Yes
Plating Indicator e3
EU RoHS Exemption(s)

MANUFACTURINGMfg Item NumberAFT09S282NR3Mfg Item NameOM780-2 Straight CuVersionALLWeight3.081100

UoMgUnit VolumeEACHJ-STD-020 MSL Rating3Peak Processing Temperature260 CMax Time at Peak Temperature40 secondsNumber of Processing Cycles3

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, 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 Co							
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	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight							
Zampuono	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							

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	0.8381						g				
Die Encapsulant		Solvents, additives, and other materials	Benzophenonetetracarboxylic Acid Dianhydride	2421-28-5		0.06272173	g	74838	7.4838	20356	2.0356
Die Encapsulant		Plastics/polymers	Poly[(o-cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.02508852	g	29935	2.9935	8142	0.8142
Die Encapsulant		Plastics/polymers	Other Epoxy resins	-		0.02508852	g	29935	2.9935	8142	0.8142
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.02508852	g	29935	2.9935	8142	0.8142
Die Encapsulant		Metals	Magnesium, metal	7439-95-4		0.00149601	g	1785	0.1785	485	0.0485
Die Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other organic silicon compounds	-		0.00449305	g	5361	0.5361	1458	0.1458
Die Encapsulant		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.02508852	g	29935	2.9935	8142	0.8142
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.66903513	g	798276	79.8276	217141	21.7141
Bonding Wire, Aluminum	0.0022						g				
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0022	g	1000000	100	714	0.0714
Lead Frame Plating	0.025						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.000005	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.024995	g	999800	99.98	8112	0.8112
Copper Lead Frame	0.5102						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.49180984	q	963955	96.3955	159621	15.9621
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00042092	q	825	0.0825	136	0.0136
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0119897	q	23500	2.35	3891	0.3891
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00008673	a	170	0.017	28	0.0028
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.005102	q	10000	1	1655	0.1655
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.00015306	q	300	0.03	49	0.0049
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00063775	q	1250	0.125	206	0.0206
Silicon Semiconductor Die	0.0162						q				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	_		0.000324	a	20000	2	105	0.0105
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.015876	a	980000	98	5152	0.5152
Silicon Semiconductor Die	0.0162						a				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00016524	a	10200	1.02	53	0.0053
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	_		0.0003207	a	19796	1.9796	104	0.0104
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.01571406	a	970004	97.0004	5100	0.51
Silicon Semiconductor Die	0.0162		7.54				q				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00016524	q	10200	1.02	53	0.0053
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	_		0.0003207	a	19796	1.9796	104	0.0104
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.01571406	a	970004	97.0004	5100	0.51
Heat Sink	1.657		,				a			0.00	
Heat Sink		Metals	Cobalt, metal	7440-48-4		0.00562717	a	3396	0.3396	1826	0.1826
Heat Sink		Metals	Copper, metal	7440-50-8		1.63243994	g	985178	98.5178	529839	52.9839
Heat Sink		Metals	Gold, metal	7440-57-5		0.00144988	a	875	0.0875	470	0.047
Heat Sink		Nickel (external applications only)	Nickel	7440-02-0		0.01321955	g	7978	0.7978	4290	0.429
Heat Sink		Metals	Palladium, metal	7440-05-3		0.00264457	g	1596	0.1596	858	0.0858
Heat Sink		Metals	Zirconium, metal	7440-67-7		0.00161889	9	977	0.0977	525	0.0525

LINKS MCD LINK NXP website http://www.nxp.com GENERAL ENVIRONMENTAL COMPLIANCE LINKS http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf RoHS signed letter China RoHS http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf REACH signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf ELV signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf Conflict Minerals statement NXP ENVIRONMENTAL INFORMATION Environmental Compliance website http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX FAQ http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ http://www.nxp.com/support/sales-and-support:SUPPORTHOME Technical Service Request

http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form IPC1752 XML LINKS

http://www.freescale.com/mcds/AFT09S282NR3_IPC1752_v11.xml

http://www.freescale.com/mcds/AFT09S282NR3_IPC1752A.xml