Mig tem Number       MK40DX128VLH7         Mig tem Name       LQFP 64 10'10'1.4P0.5         SUPPLIER         Company Name         Company Name       Freescale Semiconductor Inc         Company Unique ID       41:41-7928         Response Dace       2017-09-28         Contact Name       6200200167A1.13         Contact Name       Freescale Semiconductor Inc         Contact Title       Product Technical Support         Contact Title       Product Technical Support         Contact Phone       Baile Binyon         Representative Phone       Sepses-5406         Representative Phone       Sepses-5406         Representative Phone       Sepses-5406         Representative Phone       Sepses-5406         Representative Final       epanist@freescale.com         Representative Final       Sepses-5406         Representative Final       epanist@freescale.com         Representative Final       epanist@freescale.com         Representative Final       www.freescale.com         Representative Email       www.freescale.com         Representative Email       www.freescale.com         Representative Email       www.freescale.com         Representative Email       w		
Mg Item Name       LQFP 64 10*10*1.4P0.5         SUPLIER       Support         Company Name       Freescale Semiconductor Inc         Company Unique ID       14.141-7928         Response Date       2017-09-28         Response Document ID       8426K000200167A1.13         Contact Title       Product Technical Support         Contact Email       support@freescale.com         Authorized Representative Title       EPP Customer Response         Representative Title       EPP Customer Response         Representative Title       eppanlst@freescale.com         Representative Title       EPP Customer Response         Representative Title       EPP Customer Response         Representative Title       eppanlst@freescale.com         Representative Title       EPP Customer Response         Representative Title       EPP Customer Response         Representative Title       eppanlst@freescale.com         Representative Title       www.freescale.com         Representative Title       eppanlst@freescale.com         Representative Title       eppanlst@freescale.com         Representative Email       eppanlst@freescale.com         URL OF Additional Information       www.freescale.com         URL OF Additional Information       www.free	PART INFORMATION	
SUPPLIER         Company Name       Freescale Semiconductor Inc         Company Unique ID       14-141-7928         Response Date       2017-09-28         Response Document ID       8426K00020167A1.13         Contact Name       Freescale Semiconductor Inc         Contact Title       Product Technical Support         Contact Email       support@freescale.com         Authorized Representative       EPP Customer Response         Representative Phone       512-895-3406         Representative Email       eppanlst@freescale.com         Authorized Representative Phone       512-895-3406         Representative Email       eppanlst@freescale.com         Representative Email       eppanlst@freescale.com         URL for Additional Information       www.freescale.com         DRELARATION       www.freescale.com	Mfg Item Number	MK40DX128VLH7
Company NameFreescale Semiconductor IncCompany Unique ID14-141-7928Response Date2017-09-28Response Document ID8426K0002D167A1.13Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Title90-521-6274Contact Emailsupport@freescale.comAuthorized Representative Representative Phone512-895-3406Representative Emailprescale.comRepresentative Emailwww.freescale.comRepresentative EmailexponseRepresentative Emailprescale.comRepresentative Emailwww.freescale.comRepresentative Emailwww.freescale.comRepresentative EmailexponseRepresentative Emailwww.freescale.comRepresentative Emailwww.freescale.comRepresentative Emailgupants@freescale.comUR DHSYes	Mfg Item Name	LQFP 64 10*10*1.4P0.5
Company NameFreescale Semiconductor IncCompany Unique ID14-141-7928Response Date2017-09-28Response Document ID8426K0002D167A1.13Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Title90-521-6274Contact Emailsupport@freescale.comAuthorized Representative Representative Phone512-895-3406Representative Emailprescale.comRepresentative Emailwww.freescale.comRepresentative EmailexponseRepresentative Emailprescale.comRepresentative Emailwww.freescale.comRepresentative Emailwww.freescale.comRepresentative EmailexponseRepresentative Emailwww.freescale.comRepresentative Emailwww.freescale.comRepresentative Emailgupants@freescale.comUR DHSYes		
Company Unique ID14-141-7928Response Date2017-09-28Response Document ID8426K00020167A1.13Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Thone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Email512-895-3406Representative Emaileppanlst@freescale.comRepresentative Emaileppanlst@freescale.comRepresentative EmailEPP Customer ResponseRepresentative Emaileppanlst@freescale.comRepresentative Emaileppanlst@freescale.comRepresentative EmailEPP Customer ResponseRepresentative EmailEPP Customer ResponseRepresentative EmailEppanlst@freescale.comUR dot Additional Informationeppanlst@freescale.comEU ROHSYes	SUPPLIER	
Response Date2017-09-28Response Document ID8426K00020D167A1.13Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Phone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEVP Customer ResponseRepresentative Phone512-895-3406Representative Emailwww.freescale.comJRL for Additional Informationwww.freescale.comDECLARATIONEVP Customer ResponseEU RoHSYes	Company Name	Freescale Semiconductor Inc
Response Document ID8426K0002D167A1.13Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Phone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Fhone512-895-3406Representative EmaileppanIst@freescale.comJLE for Additional Informationwww.freescale.comJEL For Additional Informationwww.freescale.comDECLARATIONEPCEU RoHSYes	Company Unique ID	14-141-7928
Contact NameFreescale Semiconductor IncContact TitleProduct Technical SupportContact Phone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Email512-895-3406Representative Emailwww.freescale.comJRL for Additional Informationwww.freescale.comDECLARATIONEPL Customer ResponseEU RoHSYes	Response Date	2017-09-28
Contact TitleProduct Technical SupportContact Phone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.comJRL for Additional Informationwww.freescale.comECLARATIONECLARATIONEU RoHSYes	Response Document ID	8426K00020D167A1.13
Contact Phone1-800-521-6274Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.comJRL for Additional Informationwww.freescale.comDECLARATIONEU RoHSEU RoHSYes	Contact Name	Freescale Semiconductor Inc
Contact Emailsupport@freescale.comAuthorized RepresentativeDaniel BinyonRepresentative TitleEPP Customer ResponseRepresentative Phone512-895-3406Representative Emaileppanlst@freescale.comJRL for Additional Informationwww.freescale.com	Contact Title	Product Technical Support
Authorized Representative       Daniel Binyon         Representative Title       EPP Customer Response         Representative Phone       512-895-3406         Representative Email       eppanlst@freescale.com         JRL for Additional Information       www.freescale.com         DECLARATION       URDES         EU ROHS       Yes	Contact Phone	1-800-521-6274
Representative Title       EPP Customer Response         Representative Phone       512-895-3406         Representative Email       eppanlst@freescale.com         JRL for Additional Information       www.freescale.com         DECLARATION       UR         EU RoHS       Yes	Contact Email	support@freescale.com
Representative Phone       512-895-3406         Representative Email       eppanlst@freescale.com         JRL for Additional Information       www.freescale.com         DECLARATION       URL for Additional Information         EU RoHS       Yes	Authorized Representative	Daniel Binyon
Representative Email       eppanIst@freescale.com         JRL for Additional Information       www.freescale.com         DECLARATION          EU RoHS       Yes	Representative Title	EPP Customer Response
URL for Additional Information www.freescale.com	Representative Phone	512-895-3406
DECLARATION EU RoHS Yes	Representative Email	eppanlst@freescale.com
EU RoHS Yes	URL for Additional Information	www.freescale.com
EU RoHS Yes		
EU RoHS Yes	DECLARATION	
Pb Free Yes	EU RoHS	Yes
	Pb Free	Yes

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

MANUFACTURING	
Mfg Item Number	MK40DX128VLH7
Mfg Item Name	LQFP 64 10*10*1.4P0.5
Version	ALL
Weight	0.346550
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 provides as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Company's 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 Supplier Standard Terms and Conditions of Sale ap					
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					
	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%		ARTICLEPPM	ARTICLE%
Less I Francis Disting	0.0005							PPM				
Lead Frame Plating	0.0035			7439-92-1		0.0000007	g	200	0.02	_	0	0.0002
Lead Frame Plating		Lead/Lead Compounds					g		99.98	_	2	
Lead Frame Plating	0.0002	Metals	Tin, metal	7440-31-5		0.0034993	g	999800	99.98	_	10097	1.0097
Epoxy Die Attach	0.0002			9003-36-5		0.00002167	g		10.8343	_		0.0062
Epoxy Die Attach Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155 Other Epoxy resins	9003-36-5		0.00002167	g	108343 32502	3,2502	_	62	0.0062
		Plastics/polymers				0.0000065	g			_	18	0.0018
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-			g	32502	3.2502	_	18	
Epoxy Die Attach		Solvents, additives, and other materials	1-cyanoguanidine	461-58-5		0.0000065	g	3250	0.325	_	1	0.0001
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00000217	g	10834	1.0834	_	6	0.0006
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.00016251	g	812569	81.2569	_	468	0.0468
Copper Lead Frame	0.0804						g			_		
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.07750198	g	963955	96.3955	_	223638	22.3638
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00006633	g	825	0.0825	_	191	0.0191
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0018894	g	23500	2.35	_	5452	0.5452
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00001367	g	170	0.017	_	39	0.0039
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.000804	g	10000	1		2320	0.232
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.00002412	g	300	0.03		69	0.0069
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.0001005	g	1250	0.125		290	0.029
Die Encapsulant, Halogen-free	0.2512						g					
Die Encapsulant, Halogen-free		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6		0.011304	g	45000	4.5		32618	3.2618
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.002512	g	10000	1		7248	0.7248
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0005024	g	2000	0.2		1449	0.1449
Die Encapsulant, Halogen-free		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6		0.011304	g	45000	4.5		32618	3.2618
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.2255776	g	898000	89.8		650936	65.0936
Bonding Wire, PdCu	0.0023						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0022563	g	981000	98.1		6510	0.651
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000023	g	1000	0.1		6	0.0006
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0000414	g	18000	1.8		119	0.0119
Silicon Semiconductor Die	0.00895						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000179	g	20000	2		516	0.0516
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.008771	g	980000	98		25309	2.5309

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

## IPC1752 XML LINKS

http://www.freescale.com/mcds/MK40DX128VLH7\_IPC1752\_v11.xml

http://www.freescale.com/mcds/MK40DX128VLH7\_IPC1752A.xml