

PART INFORMATION

Mfg Item Number	DSP56F807PY80E
Mfg Item Name	LQFP 160 24*24*1.4P0.5

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2015-01-09
Response Document ID	8275K10949D283A1.16
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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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	Yes
HalogenFree	Yes
Plating Indicator	e3
EU RoHS Exemption(s)	

MANUFACTURING

Mfg Item Number	DSP56F807PY80E
Mfg Item Name	LQFP 160 24*24*1.4P0.5
Version	ALL
Weight	1.833400
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. piezoelectric 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%
Lead Frame Plating	0.0182						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000364	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.01819636	g	999800	99.98	9924	0.9924
Epoxy Die Attach	0.0031						g				
Epoxy Die Attach		Solvents, additives, and other materials	Proprietary Material-Other acrylates	-		0.0003875	g	125000	12.5	211	0.0211
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000775	g	25000	2.5	42	0.0042
Epoxy Die Attach		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00003875	g	12500	1.25	21	0.0021
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.002418	g	780000	78	1318	0.1318
Epoxy Die Attach		Plastics/polymers	Proprietary Material-acrylonitrile/butadiene copolymer, carboxyl terminated	-		0.00017825	g	57500	5.75	97	0.0097
Copper Lead Frame	0.3449						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.3249982	g	940562	94.0562	170938	17.0938
Copper Lead Frame		Solvents, additives, and other materials	Silicon	7440-21-3		0.00250053	g	7250	0.725	1363	0.1363
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.00043113	g	1250	0.125	235	0.0235
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00010795	g	313	0.0313	58	0.0058
Copper Lead Frame		Metals	Magnesium, metal	7439-95-4		0.00060358	g	1750	0.175	329	0.0329
Copper Lead Frame		Metals	Manganese, metal	7439-96-5		0.00021556	g	625	0.0625	117	0.0117
Copper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0		0.0110368	g	32000	3.2	6019	0.6019
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.003449	g	10000	1	1881	0.1881
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00215563	g	6250	0.625	1175	0.1175
Die Encapsulant, Halogen-free	1.4366						g				
Die Encapsulant, Halogen-free		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl diglycidyl ether	85954-11-6		0.13844227	g	96368	9.6368	75511	7.5511
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00265484	g	1848	0.1848	1448	0.1448
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other organic phosphorous compounds	-		0.00398226	g	2772	0.2772	2172	0.2172
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		1.29152063	g	899012	89.9012	704452	70.4452
Bonding Wire, Copper	0.0081						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.007857	g	970000	97	4285	0.4285
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000243	g	30000	3	132	0.0132
Silicon Semiconductor Die	0.0225						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.00045	g	20000	2	245	0.0245
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.02205	g	980000	98	12026	1.2026

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/mcdfs/DSP56F807PY80E_IPC1752_v11.xml

http://www.freescale.com/mcdfs/DSP56F807PY80E_IPC1752A.xml