URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

QFN-EP 56 8*8*0.9 P.5 WF

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2018-03-17 Response Document ID 00F6K10949D344A1.7 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

DECLARATION

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

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MANUFACTURING MMPF0100F0AZESR2 Mfg Item Number QFN-EP 56 8*8*0.9 P.5 WF Mfg Item Name Version ALL Weight 0.169000 UoM 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, 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							
Zampuona	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%
Lead Frame Plating	0.001						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000002	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.0009998	g	999800	99.98	5915	0.5915
Epoxy Die Attach	0.0013						g				
Epoxy Die Attach		Solvents, additives, and other materials	Proprietary Material-Other acrylates			0.0001625	g	125000	12.5	961	0.0961
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000325	g	25000	2.5	192	0.0192
Epoxy Die Attach		Solvents, additives, and other materials	Other organic Silicon Compounds			0.00001625	g	12500	1.25	96	0.0096
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.001014	g	780000	78	6000	0.6
Epoxy Die Attach		Plastics/polymers	Proprietary Material-acrylonitrile/butadiene copolymer, carboxyl terminated	-		0.00007475	g	57500	5.75	442	0.0442
Copper Lead Frame	0.0828						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.07787853	g	940562	94.0562	460827	46.0827
Copper Lead Frame		Solvents, additives, and other materials	Silicon	7440-21-3		0.0006003	g	7250	0.725	3552	0.3552
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0001035	g	1250	0.125	612	0.0612
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00002592	g	313	0.0313	153	0.0153
Copper Lead Frame		Metals	Magnesium, metal	7439-95-4		0.0001449	g	1750	0.175	857	0.0857
Copper Lead Frame		Metals	Manganese, metal	7439-96-5		0.00005175	g	625	0.0625	306	0.0306
Copper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0		0.0026496	g	32000	3.2	15678	1.5678
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.000828	g	10000	1	4899	0.4899
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.0005175	g	6250	0.625	3062	0.3062
Bonding Wire, PdCu	0.0017						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.00166433	g	979015	97.9015	9848	0.9848
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00003567	g	20985	2.0985	211	0.0211
Die Encapsulant, Halogen-free	0.0766						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.001915	g	25000	2.5	11331	1.1331
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000383	g	5000	0.5	2266	0.2266
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.005745	g	75000	7.5	33994	3.3994
Die Encapsulant, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.007277	g	95000	9.5	43059	4.3059
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.06128	g	800000	80	362603	36.2603
Silicon Semiconductor Die	0.0056						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000112	g	20000	2	662	0.0662
Silicon Semiconductor Die		Glass	Silicon, doped			0.005488	g	980000	98	32473	3.2473

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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/MMPF0100F0AZESR2_IPC1752_v11.xml

http://www.freescale.com/mcds/MMPF0100F0AZESR2_IPC1752A.xml