URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

ESOIC54 7.5*17.9*2.4*.65

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2018-01-15 009KK00182D007A1.13 Response Document ID 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 Mfg Item Number MC07XSF517BEK ESOIC54 7.5*17.9*2.4*.65 Mfg Item Name Version ALL Weight 0.774450 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
Exemptions	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	SubPart%	ARTICLEPPM	ARTICLE%
								PPM			
Non-Conductive Epoxy/Adhesive	0.0014						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.000105	g	75000	7.5	135	0.0135
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00028	g	200000	20	361	0.0361
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.000105	g	75000	7.5	135	0.0135
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00028	g	200000	20	361	0.0361
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.00063	g	450000	45	813	0.0813
Bonding Wire, Aluminum	0.002						g				
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.002	g	1000000	100	2582	0.2582
Lead Frame Plating	0.0053						g				
Lead Frame Plating	4	Lead/Lead Compounds	Lead	7439-92-1		0.00000106	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.00529894	g	999800	99.98	6842	0.6842
Die Encapsulant, Halogen-free	0.5477						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3		0.0005477	g	1000	0.1	707	0.0707
Die Encapsulant, Halogen-free		Plastics/polymers	Poly[(o-cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.0120494	g	22000	2.2	15558	1.5558
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0180741	g	33000	3.3	23337	2.3337
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0016431	g	3000	0.3	2121	0.2121
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.0235511	g	43000	4.3	30410	3.041
Die Encapsulant, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.021908	g	40000	4	28288	2.8288
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.4699266	g	858000	85.8	606801	60.6801
Copper Lead Frame	0.2034						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.19606844	g	963955	96.3955	253171	25.3171
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00016781	g	825	0.0825	216	0.0216
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0047799	g	23500	2.35	6171	0.6171
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00003458	g	170	0.017	44	0.0044
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.002034	g	10000	1	2626	0.2626
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.00006102	g	300	0.03	78	0.0078
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00025425	g	1250	0.125	328	0.0328
Epoxy Die Attach	0.00265						g				
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.002014	g	760000	76	2600	0.26
Epoxy Die Attach		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.00011543	g	43560	4.356	149	0.0149
Epoxy Die Attach		Solvents, additives, and other materials	Polymethylene polyphenyl isocyanate (PAPI)	9016-87-9		0.00001352	g	5100	0.51	17	0.0017
Epoxy Die Attach		Metals	Dibutyltin dilaurate	77-58-7		0.0000009	g	340	0.034	1	0.0001
Epoxy Die Attach		Solvents, additives, and other materials	Alkanes, C14-16	90622-46-1		0.000371	g	140000	14	479	0.0479
Epoxy Die Attach		Plastics/polymers	1,3-Benzenedicarboxylic acid, polymer with 1,4- benzenedicarboxylic acid, 1,4-butanediol and hexanedi	66027-02-9		0.00013515	g	51000	5.1	174	0.0174
Bonding Wire, PdCu	0.002						q				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0019764	a	988200	98.82	2552	0.2552
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000016	a	800	0.08	2	0.0002
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.000022	a	11000	1.1	28	0.0028
Silicon Semiconductor Die	0.005						a				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	_		0.0001	a	20000	2	129	0.0129
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.0049	a	980000	98	6327	0.6327
Silicon Semiconductor Die	0.005		5			5.55.0	a	223000			
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0001	a	20000	2	129	0.0129
Silicon Semiconductor Die		Glass	Silicon, doped	_		0.0049	0	980000	98	6327	0.6327
Onicon Connecticutation Die		Giado	Ollicon, doped			0.0049	9	300000	30	0021	0.0021

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LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

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