



Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute		
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

* : Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2018-02-09
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	Floriana SAN BIAGIO	Representative Title	AMS MD CHAMPION
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement


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Legal Statement			
Supplier Acceptance *	true	Legal Declaration *	Standard

Legal Statement

Supplier certifies that it gathered the provided information and 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. 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 Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
	FDK7*0339BL6	A	MU1A	2018-02-09
Amount	UoM	Unit type	ST ECOPACK Grade	
130.0	mg	Each	ECOPACK® 1	
	Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
3	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	8.6x3.9x1.52	14	gull wing	
Comment	K7 SO 14 .15 TO JEDEC MS-012; MDF valid for LM2901YDT			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	FALSE
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : REACH-15th January 2018	
Query	Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH	TRUE
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€	-

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	FDK7*03398L6				5000000.0	1000083.0
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	0.798	mg	supplier	die	Silicon (Si)	7440-21-3		0.784	mg	982456	6031
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	8772	54
				supplier	Passivation	Silicon Nitride	12033-89-5		0.003	mg	3759	23
				supplier	Passivation	Silicon Oxide	7631-86-9		0.004	mg	5013	31
Leadframe	M-004 Copper and its alloys	37.110	mg	supplier	alloy	Copper (Cu)	7440-50-8		35.999	mg	970062	276915
				supplier	alloy	Iron (Fe)	7439-89-6		0.847	mg	22824	6515
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.051	mg	1374	392
				supplier	alloy	Zinc (Zn)	7440-66-6		0.044	mg	1186	338
				supplier	metallization	Nickel (Ni)	7440-02-0		0.154	mg	4150	1185
				supplier	metallization	Palladium (Pd)	7440-05-3		0.005	mg	135	38
				supplier	metallization	Gold (Au)	7440-57-5		0.005	mg	135	38
				supplier	metallization	Silver (Ag)	7440-22-4		0.005	mg	135	38
Die attach	M-015 Other organic materials	0.217	mg	supplier	glue	Silver (Ag)	7440-22-4		0.163	mg	751152	1254
				supplier	glue	Epoxy Cresol Novolak	29690-82-2		0.053	mg	244240	408
				supplier	glue	1-isopropyl-2,2-dimethyltrimethylene diisobut	6846-50-0		0.001	mg	4608	8
				supplier	wire	Gold (Au)	7440-57-5		0.315	mg	1000000	2423
Bonding wires	M-008 Precious metals	0.315	mg	supplier	wire	Gold (Au)	7440-57-5		0.315	mg	1000000	2423
				supplier	mold compound	Silica, vitreous	60676-86-0		73.257	mg	800002	563515
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		9.157	mg	99999	70438
				supplier	mold compound	phenol resin	9003-35-4		4.579	mg	50005	35223
				supplier	mold compound	Brominated epoxy resin	40039-93-8		1.831	mg	19995	14085
Encapsulation	M-011 Other inorganic materials	91.571	mg	supplier	mold compound	Antimony Trioxide	1309-64-4		1.831	mg	19995	14085
				supplier	mold compound	Carbon Black	1333-86-4		0.916	mg	10003	7046