



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2019-09-02
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
	KD6R*0339BL6	A	BO2A-64BA	2019-09-02
Amount	UoM	Unit type	ST ECOPACK Grade	
54.82	mg	Each	ECOPACK® 3	
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	0	



Package Designator	Size	Nbr of instances	Shape	
DSO	5 x 4.4	14	gull wing	
Comment	6R TSSOP 14 BODY 4.4 PITCH 0.65; MDF is valid for LM2901YPT			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 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
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : REACH-16th July 2019				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
,	0			
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
,	0		,	

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	KD6R*0339BL6				5000000.0	999981.0
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	0.796	mg	supplier	die	Silicon(Si)	7440-21-3		0.782	mg	982412	14265
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.007	mg	8794	128
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.003	mg	3769	55
				supplier	passivation	Silicon oxide	7631-86-9		0.004	mg	5025	73
Leadframe	M-004 Copper and its alloys	16.838	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		16.162	mg	959853	294819
				supplier	alloy & coating	Nickel(Ni)	7440-02-0		0.234	mg	13897	4269
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.380	mg	22568	6932
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		0.023	mg	1366	420
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.020	mg	1188	365
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.004	mg	238	73
				supplier	alloy & coating	Palladium(Pd)	7440-05-3		0.006	mg	356	109
Die attach	M-015 Other organic materials	0.188	mg	supplier	alloy & coating	Gold(Au)	7440-57-5		0.009	mg	535	164
				supplier	glue	Silver(Ag)	7440-22-4		0.166	mg	882979	3028
				supplier	glue	Isobornyl methacrylate	7534-94-3		0.009	mg	47872	164
				supplier	glue	Isobornyl acrylate	5888-33-5		0.009	mg	47872	164
Bonding wires	M-004 Copper and its alloys	0.089	mg	supplier	glue	Methyl acrylate polymer	87320-05-6		0.004	mg	21277	73
				supplier	wire	Copper(Cu)	7440-50-8		0.089	mg	1000000	1623
				supplier	wire	Copper(Cu)	7440-50-8		0.089	mg	1000000	1623
Encapsulation	M-015 Other organic materials	36.908	mg	supplier	mold compound	Silica vitreous	60676-86-0		32.369	mg	877019	590460
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		1.476	mg	39991	26924
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		1.476	mg	39991	26924
				supplier	mold compound	Phenol type resin	proprietary		1.107	mg	29993	20193
				supplier	mold compound	additive	proprietary		0.369	mg	9998	6731
				supplier	mold compound	Carbon black	1333-86-4		0.111	mg	3007	2025