



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Sectionals *	A-D <i>* : Required Field</i>

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-11-22
Company Unique ID	NL 008751171801		
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	AMG 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
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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*V634BTY	A	BO2A	2017-11-22
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		 life.augmented
1	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	5x4.4x0.9	14	gull wing	
Comment	Package: 6R TSSOP 14 BODY 4.4 PITCH 0.65; MDF valid for TSV634IYPT			

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
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : REACH-7th July 2017				
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	KD6R*V6348TY				5000002.0	1000001.0	
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	1.182	mg	supplier	die	Silicon (Si)	7440-21-3		1.135	mg	960237	20704	
				supplier	metallization	Aluminium (Al)	7429-90-5		0.010	mg	8460	182	
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	846	18	
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	846	18	
				supplier	Passivation	Silicon Nitride	12033-89-5		0.003	mg	2538	55	
				supplier	Passivation	Silicon Oxide	7631-86-9		0.024	mg	20305	438	
Leadframe	M-004 Copper and its alloys	24.847	mg	supplier	polymer die coating	PIX1 Polyimide	108-65-6		0.008	mg	6768	146	
				supplier	alloy	Copper (Cu)	7440-50-8		24.545	mg	987846	447738	
					supplier	alloy	Magnesium (Mg)	7439-95-4		0.038	mg	1529	693
					supplier	alloy	Silicon (Si)	7440-21-3		0.166	mg	6681	3028
		M-006 Nickel and its alloys			supplier	metallization	Nickel (Ni)	7440-02-0		0.089	mg	3582	1623
		M-008 Precious metals			supplier	metallization	Palladium (Pd)	7440-05-3		0.003	mg	121	55
		M-008 Precious metals			supplier	metallization	Gold (Au)	7440-57-5		0.003	mg	121	55
					supplier	metallization	Silver (Ag)	7440-22-4		0.003	mg	121	55
Die attach	M-015 Other organic materials	0.450	mg	supplier	glue	Silver (Ag)	7440-22-4		0.395	mg	877778	7205	
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.023	mg	51111	420	
				supplier	glue	Urethane Methacrylate Resin	5888-33-5		0.023	mg	51111	420	
				supplier	glue	Acrylate polymer	87320-05-6		0.009	mg	20000	164	
Bonding wires	M-011 Other inorganic materials	0.127	mg	supplier	wire	Copper (Cu)	7440-50-8		0.127	mg	1000000	2317	
Encapsulation	M-015 Other organic materials	28.214	mg	supplier	mold compound	Silica, vitreous	60676-86-0		24.743	mg	876976	451350	
				supplier	mold compound	Epoxy resin	85954-11-6		1.129	mg	40016	20595	
				supplier	mold compound	Epoxy	29690-82-2		1.129	mg	40016	20595	
				supplier	mold compound	phenol resin	Proprietary		0.846	mg	29985	15432	
				supplier	mold compound	additive	Proprietary		0.282	mg	9995	5144	
				supplier	mold compound	carbon black	1333-86-4		0.085	mg	3013	1551	