



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2016-01-29
Contact Name *	Refer to Supplier Comment section		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
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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
	LDO7*UW23JCY	A	BO2A	2016-01-29
Amount	UoM	Unit type	ST ECOPACK Grade	
80.00	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	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	4.85x3.9x1.52	8	gull wing	
Comment	Package: 07 SO 08 .15 JEDEC; MDF valid for ST3485E1YDT			

QueryList : ROHS directive 2011/65/EU _ July 2011

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-17th December 2015

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						Mfr Item Name	LD07*UW23JCY					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	3.571	mg	supplier	die	Silicon (Si)	7440-21-3		3.399	mg	951834	42488
				supplier	metallization	Aluminium (Al)	7429-90-5		0.028	mg	7841	350
				supplier	Passivation	Silicon Nitride	12033-89-5		0.010	mg	2800	125
				supplier	Passivation	Silicon Oxide	7631-86-9		0.048	mg	13442	600
				supplier	glass coating	Glass: Silicon Dioxide	7631-86-9		0.048	mg	13442	600
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.038	mg	10641	475
Leadframe	Copper & its alloys	33.787	mg	supplier	alloy	Copper (Cu)	7440-50-8		33.473	mg	990706	418413
				supplier	alloy	Iron (Fe)	7439-89-6		0.017	mg	503	213
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.027	mg	799	338
				supplier	metallization	Silver (Ag)	7440-22-4		0.270	mg	7991	3375
				supplier	glue	Silver (Ag)	7440-22-4		1.088	mg	879547	13600
Die attach	Other Organic Materials	1.237	mg	supplier	glue	Isobornyl Methacrylate	7534-94-3		0.062	mg	50121	775
				supplier	glue	Urethane Methacrylate Resin	5888-33-5		0.062	mg	50121	775
				supplier	glue	Acrylate polymer	87320-05-6		0.025	mg	20210	313
				supplier	wire	Copper (Cu)	7440-50-8		0.059	mg	1000000	738
Encapsulation	Other Organic Materials	40.275	mg	supplier	mold compound	Silica, vitreous	60676-86-0		35.321	mg	876996	441513
				supplier	mold compound	Epoxy resin	85954-11-6		1.611	mg	40000	20138
				supplier	mold compound	Epoxy	29690-82-2		1.611	mg	40000	20138
				supplier	mold compound	phenol resin	Proprietary		1.208	mg	29994	15100
				supplier	mold compound	additive	Proprietary		0.403	mg	10006	5038
connections coating	Solder	1.071	mg	supplier	mold compound	carbon black	1333-86-4		0.121	mg	3004	1513
				supplier	solder alloy	Tin (Sn)	7440-31-5		1.071	mg	1000000	13388