



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 *	2015-03-27
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Giovanni Giacobello	Representative Title	AMS & IPD Materials Declaration 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/internet/com/support/online_tech_support.jsp		

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
	LDAZ*56DC22L	A	SH1A	2015-03-27
Amount	UoM	Unit type	ST ECOPACK Grade	
0.401	mg	Each	ECOPACK® 2	

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	
Tin/Silver/Copper (SAC305)	Tin/Silver/Copper (Sn/Ag/Cu)	NAC		

Package Designator	Size	Nbr of instances	Shape	
CHP	0.61X0.661X0.3	NAC	NAC	
Comment	Package: CSP50.2 SP 4-81; MDF valid for ST21C 68G2CE			

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	true
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
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	false
Exemption Id.	Description

QueryList : REACH-17th December 2014				
Query				Response
The product 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	LDA2*56DC2ZL						
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	0.364	mg	supplier	die	Aluminium Oxide (Al2O3)	1344-28-1		0.344	mg	945055	617594	
Die				supplier	die	Silicon (Si)	7440-21-3		0.001	mg	2747	1795	
Die				supplier	die	Silicon Oxide(SiO2)	7631-86-9		0.001	mg	2747	1795	
Die				supplier	die	Platinum (Pt)	7440-06-4		0.001	mg	2747	1795	
Die				supplier	die	Aluminium (Al)	7429-90-5		0.001	mg	2747	1795	
Die				supplier	die	PBO	29791-96-6		0.002	mg	5495	3591	
Die				supplier	Coating	Polyethylene terephthalate	25038-59-9		0.006	mg	16484	10772	
Die				supplier	Coating	Silica, vitreous	60676-86-0		0.006	mg	16484	10772	
Die				supplier	Coating	Epoxy resin	proprietary		0.001	mg	2747	1795	
Die				supplier	Coating	Acrylic polymer	9003-01-4		0.001	mg	2747	1795	
BUMPS	Solder	0.037	mg	supplier	bump	Tin (Sn)	7440-31-5		0.036	mg	972973	64632	
BUMPS				supplier	bump	Silver (Ag)	7440-22-4		0.001	mg	27027	1795	