



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 *	2016-01-11
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giovanni Giacobello	Representative Title	IPD 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 omprehensive 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
	RVW8*V798AB5	A	ZS1A	2016-01-11
Amount	UoM	Unit type	ST ECOPACK Grade	
7.00	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	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	1.80 - 1.15 - 0.8	5	gull wing	
Comment	Package: SOT 323 5LDS; MDF valid for LDK120C33R; LDK130C33R			

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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	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	RVW8*V798AB5						
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)	
Die or Dies (choose)	Other inorganic materials	0.894	mg	supplier	die	Silicon (Si)	7440-21-3		0.876	mg	980652	137571	
				supplier	metallization	Aluminum (Al)	7429-90-5		0.004	mg	4073	571	
				supplier	metallization	Tungsten (W)	7440-33-7		0.003	mg	3055	429	
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	1018	143	
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	7128	1000	
				supplier	polymer die coating	PIXI Gamma-butyrolactone	96-48-0		0.004	mg	4073	571	
Leadframe	Copper & its alloys	2.092	mg	supplier	alloy	Copper (Cu)	7440-50-8		2.015	mg	963462	316429	
				supplier	alloy	Iron (Fe)	7439-89-6		0.046	mg	22184	7286	
				supplier	alloy	Phosphorus (P)	12185-10-3		0.001	mg	435	143	
				supplier	alloy	Zinc (Zn)	7440-66-6		0.003	mg	1305	429	
				supplier	metallization	Nickel (Ni)	7440-02-0		0.024	mg	11309	3714	
				supplier	metallization	Palladium (Pd)	7440-05-3		0.002	mg	870	286	
Die attach	Other inorganic materials	0.022	mg	supplier	metallization	Gold (Au)	7440-57-5		0.001	mg	435	143	
				supplier	glue or tape	Silver (Ag)	7440-22-4		0.015	mg	666667	2286	
				supplier	glue or tape	methylene diacrylate	42594-17-2		0.005	mg	250000	857	
				supplier	glue or tape	Dicyclopentenylxyethyl methacrylate	68586-19-6		0.001	mg	41667	143	
				supplier	glue or tape	Polymer of Polybutadiene + Anhydride	Proprietary		0.001	mg	41667	143	
				supplier	wire	Copper (Cu)	7440-50-8		0.034	mg	1000000	5286	
Bonding wire encapsulation	Precious metals	0.034	mg	supplier	Other inorganic materials	Silica, vitreous	60676-86-0		3.405	mg	860032	534571	
				supplier	mold compound	phenolic resin	29690-82-2		0.118	mg	29878	18571	
				supplier	mold compound	epoxy resin	25068-38-6		0.229	mg	57918	36000	
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.198	mg	50103	31143	
				supplier	mold compound	carbon black	1333-86-4		0.008	mg	2068	1286	