



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 *	2017-02-03
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 Giacopello	Representative Title	ADG 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
ESDZV18-1BF4	KZJF*V1V18A1	A	SH1A	2017-02-03
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.120	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NAC	NAC	NAC		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
WAFER	0.6 - 0.3 -0.3	2	NAC	
Comment	Package: CSPA BUMPLESS			

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
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-12th January 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						Mfr Item Name		KZJF*V1V18A1					
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	0.120	mg	supplier	die	Silicon (Si)	7440-21-3		0.1130	mg	943239	941667	
				supplier	metallization	Aluminium (Al)	7429-90-5		0.0030	mg	25042	25000	
				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.0020	mg	16694	16667	
				supplier	UBM	Copper (Cu)	7440-50-8		0.0008	mg	6678	6667	
				supplier	UBM	Titanium (Ti)	7440-32-6		0.0001	mg	835	833	
				supplier	UBM	Gold (Au)	7440-57-5		0.0002	mg	1669	1667	
				supplier	UBM	Nickel (Ni)	7440-02-0		0.0007	mg	5843	5833	