



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 *	2017-03-14
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	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			
<p>While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.</p>			
Legal Statement			
Supplier Acceptance *	true	Legal Declaration *	Standard
Legal Statement	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
	SMKU*U713BB6	A	3068	2017-03-14
Amount	UoM	Unit type	ST ECOPACK Grade	
80.00	mg	Each	ECOPACK2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	NiThPdAgAu	Copper Alloy		



Package Designator	Size	Nbr of instances	Shape	
QFP	4.9-6-1.75	8	gull wing	
Comment	Package: SO 08 STRIP SINGLE ISLAND 4+3+1 - MDF valid for L9613B013TR and L9613B			

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

Query : California Prop65 list, dated 27th January 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.04	leadframe metal	550

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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	SMKU*U713BB6					
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	3.601	mg	supplier	die	Silicon (Si)	7440-21-3		3.494	mg	970286	43675
				supplier	metallization	Aluminium (Al)	7429-90-5		0.020	mg	5554	250
				supplier	Passivation	Silicon Nitride	12033-89-5		0.011	mg	3055	138
				supplier	Passivation	Silicon Oxide	7631-86-9		0.047	mg	13052	588
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.029	mg	8053	363
Leadframe	Copper & its alloys	30.033	mg	supplier	alloy	Copper (Cu)	7440-50-8		29.719	mg	989545	371488
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.030	mg	999	375
				supplier	metallization	Nickel (Ni)	7440-02-0		0.044	mg	1465	550
				supplier	metallization	Palladium (Pd)	7440-05-3		0.002	mg	67	25
				supplier	metallization	Gold (Au)	7440-57-5		0.002	mg	67	25
Die attach	Other Organic Materials	0.991	mg	supplier	metallization	Silver (Ag)	7440-22-4		0.236	mg	7857	2950
				supplier	glue	Silver (Ag)	7440-22-4		0.901	mg	909183	11263
				supplier	glue	acrylate	Proprietary		0.050	mg	50454	625
				supplier	glue	Methacrylate	Proprietary		0.040	mg	40363	500
				supplier	wire	Gold (Au)	7440-57-5		0.130	mg	1000000	1625
Bonding wires	Other inorganic materials	0.130	mg	supplier	metallization	Silver (Ag)	7440-22-4		0.236	mg	7857	2950
				supplier	glue	Silver (Ag)	7440-22-4		0.901	mg	909183	11263
				supplier	glue	acrylate	Proprietary		0.050	mg	50454	625
				supplier	glue	Methacrylate	Proprietary		0.040	mg	40363	500
				supplier	wire	Gold (Au)	7440-57-5		0.130	mg	1000000	1625
Encapsulation	Other Organic Materials	45.245	mg	supplier	mold compound	Silica, vitreous	60676-86-0		39.183	mg	866018	489788
				supplier	mold compound	Epoxy Resin	25068-38-6		3.393	mg	74992	42413
				supplier	mold compound	Phenol Resin	29690-82-2		2.262	mg	49994	28271
				supplier	mold compound	Carbon black	1333-86-4		0.226	mg	4996	2825
				supplier	mold compound	Bismuth (Bi)	7440-69-9		0.181	mg	4000	2263