




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 *	2016-11-16
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				
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Legal Statement				
Supplier Acceptance *	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; text-align: center;">true</td> <td style="width: 33%; text-align: center;">Legal Declaration *</td> <td style="width: 33%; text-align: center;">Standard</td> </tr> </table>	true	Legal Declaration *	Standard
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 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.</p>			

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
SM15T200CA	8HZH*TWB201K	A	BOUSKOURA B/E	2016-11-16
	Amount	UoM	Unit type	ST ECOPACK Grade
	250.00	mg	Each	ECOPACK2

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	Ni plating	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	6.69-5.63-2.38	2	J bend	
Comment	SMC CLIP (SOD 15)			

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	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : REACH-20th June 2016				
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	8ZH*TWB201K					
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	4.997	mg	supplier	die	Silicon (Si)	7440-21-3		4.907	mg	981996	19636
				supplier	metallization	Aluminium (Al)	7429-90-5		0.014	mg	2801	55
				supplier	Passivation	Silicon Oxide	7631-86-9		0.019	mg	3801	76
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.019	mg	3801	76
				supplier	back side metallization	Gold (Au)	7440-57-5		0.007	mg	1400	28
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.031	mg	6201	120
Leadframe	Copper & its alloys	79.541	mg	supplier	alloy	Copper (Cu)	7440-50-8		78.669	mg	989037	314676
				supplier	alloy	Iron (Fe)	7439-89-6		0.079	mg	993	316
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.024	mg	302	96
				supplier	metallization	Nickel (Ni)	7440-02-0		0.769	mg	9668	3076
Soft solder	Solder	4.454	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	4.099	mg	920296	16396
				supplier	solder	Silver (Ag)	7440-22-4		0.222	mg	49843	888
				supplier	solder	Tin (Sn)	7440-31-5		0.111	mg	24922	444
				supplier	solder	flux residue	Proprietary		0.022	mg	4939	88
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Encapsulation	Other Organic Materials	119.522	mg	supplier	mold compound	Amorphous Silica	7631-86-9		87.369	mg	730987	349476
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		22.709	mg	189998	90836
				supplier	mold compound	Phenol resin	9003-35-4		3.586	mg	30002	14344
				supplier	mold compound	Bisphenol A-bisphenol A diglycidyle ether poly	25036-25-3		3.586	mg	30003	14344
				supplier	mold compound	Carbon black	1333-86-4		1.076	mg	9003	4304
				supplier	mold compound	Triphenylphophine	603-35-0		0.837	mg	7003	3348
				supplier	mold compound	3-Mercaptopropyl trimethoxysilane	4420-74-0		0.359	mg	3004	1435
Connections coating	Solder	1.972	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.972	mg	1000000	7886
Clip	Copper & its alloys	39.514	mg	supplier	alloy	Copper (Cu)	7440-50-8		39.514	mg	1000000	158056