



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 *	2017-07-13
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giuseppe Vitali Palma	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
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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
STB33N65M2	T2D2*MQF7B62	A	3068	2017-07-13
Amount	UoM	Unit type	ST ECOPACK Grade	
1380.00	mg	Each	ECOPACK2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
1	245	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	10.2-9.15-4.5	2	gull wing	
Comment	D2PAK			

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)

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	0.19	Die back side metal - Leadframe metal	139
Lead	14.83	Soft solder	10745

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	T2D2*MQF7862					
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	17.517	mg	supplier	die	Silicon (Si)	7440-21-3		16.822	mg	960324	12190
				supplier	metallization	Aluminium (Al)	7429-90-5		0.334	mg	19067	242
				supplier	Passivation	Silicon Nitride	12033-89-5		0.079	mg	4510	57
				supplier	Passivation	Silicon Oxide	7631-86-9		0.118	mg	6736	86
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.008	mg	457	6
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.115	mg	6565	83
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.041	mg	2341	30
				supplier	alloy	Copper (Cu)	7440-50-8		777.537	mg	998594	563433
Leadframe	Copper & its alloys	778.632	mg	supplier	alloy	Iron (Fe)	7439-89-6		0.358	mg	459	259
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.654	mg	840	474
				supplier	metallization	Nickel (Ni)	7440-02-0		0.077	mg	99	56
				supplier	metallization	Phosphorus (P)	12185-10-3		0.006	mg	8	4
				supplier	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	14.828	mg	954982
Soft solder	Solder	15.527	mg	supplier	solder	Silver (Ag)	7440-22-4		0.388	mg	24988	281
				supplier	solder	Tin (Sn)	7440-31-5		0.311	mg	20030	225
				supplier	wire	Aluminium (Al)	7429-90-5		0.903	mg	996689	654
Bonding wires	Other inorganic materials	0.906	mg	supplier	wire	Magnesium (Mg)	7439-95-4		0.003	mg	3311	2
				supplier	mold compound	Silica, vitreous	60676-86-0		494.313	mg	874999	358198
				supplier	mold compound	Tetramethyl-biphenyl-diyl-bis oxymethylene-b	EC 413-900-7		22.597	mg	40000	16375
				supplier	mold compound	Epoxy Resin	25068-38-6		16.947	mg	30000	12281
				supplier	mold compound	phenol resin	29690-82-2		28.247	mg	50000	20468
Encapsulation	Other Organic Materials	564.929	mg	supplier	mold compound	Carbon black	1333-86-4		2.825	mg	5001	2047
				supplier	mold compound	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804
Connections coating	Solder	2.489	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804