



## Materials Declaration Form

<b>IPC</b>	1752	<b>Version</b>	2
<b>Form Type *</b>	Distribute		
<b>Sectionals *</b>	Material Info Manufacturing Info	<b>Subsectionals *</b>	A-D

\*: Required Field

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2018-07-10
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Contact Phone *</b>	Refer to Supplier Comment section	<b>Contact Email *</b>	Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<b>Representative Title</b>	ADG MD Champion
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty Statement**

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**Legal Statement**

<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	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
STTH15RQ06G2-TR	7T(9*U66Q21I	A	3068	2018-07-10
	Amount	UoM	Unit type	ST ECOPACK Grade
	1380.00	mg	Each	ECOPACK1
	Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices		

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	10.2-7.2-4.5	3	GULL WING	
Comment	H2PAK HC 2-3 Leads			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 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 : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	FALSE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	TRUE
Exemption Id.	Description
8e	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 25th May 2018			
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	0.25	Die - Leadframe	180
Lead	4.61	Soft solder	3342
Antimony trioxide	6.17	Mold compound	4471

QueryList : REACH-15th January 2018				
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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	7T(9*U66Q21)					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	4.395	mg	supplier	die	Silicon (Si)	7440-21-3		4.213	mg	958611	3053
				supplier	metallization	Aluminium (Al)	7429-90-5		0.062	mg	14107	45
				supplier	Passivation	Silicon Oxide	7631-86-9		0.020	mg	4551	14
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.002	mg	455	1
				supplier	back side metallization	Gold (Au)	7440-57-5		0.007	mg	1593	5
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.034	mg	7736	25
Leadframe	M-004 Copper and its alloys	848.010	mg	supplier	polymer die coating	Probimide	Proprietary		0.057	mg	12947	43
				supplier	alloy	Copper (Cu)	7440-50-8		846.677	mg	998428	613534
				supplier	alloy	Iron (Fe)	7439-89-6		0.848	mg	1000	614
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.254	mg	300	184
				supplier	metallization	Nickel (Ni)	7440-02-0		0.214	mg	252	155
				supplier	metallization	Phosphorus (P)	7723-14-0		0.017	mg	20	12
Soft solder	Solder	4.830	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	4.612	mg	954865	3342
				supplier	solder	Silver (Ag)	7440-22-4		0.121	mg	25052	88
				supplier	solder	Tin (Sn)	7440-31-5		0.097	mg	20083	70
Bonding wires	M-011 Other inorganic materials	4.925	mg	supplier	wire	Aluminium (Al)	7429-90-5		4.925	mg	1000000	3569
Encapsulation	M-011 Other inorganic materials	514.106	mg	supplier	mold compound	Silica, vitreous	60676-86-0		414.370	mg	806001	300268
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		35.987	mg	69999	26078
				supplier	mold compound	Phenol resin	9003-35-4		20.564	mg	40000	14901
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		30.846	mg	59999	22352
				supplier	mold compound	Antimony Trioxide	1309-64-4		6.169	mg	11999	4470
				supplier	mold compound	Brominated Epoxy Resin	40039-93-8		3.599	mg	7001	2608
Connections coating	Solder	3.734	mg	supplier	mold compound	Carbon black	1333-86-4		2.571	mg	5001	1863
				supplier	solder alloy	Tin (Sn)	7440-31-5		3.734	mg	1000000	2706